

**NDSU DEPARTMENT OF COMPUTER SCIENCE
AND OPERATIONS RESEARCH**

**ANNUAL REPORT
2015–2016**

Primary Contact:

Dr. Kenneth Magel, Associate Head
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Appendices

The following pages give supporting information prepared by the Department staff for the Executive Summary given on the preceeding pages.

Faculty, Lecturers and Special Appointments Profiles



**Dr. Anne Denton, Associate Professor and
past Graduate Coordinator
PhD, University of Mainz, Germany 1996**

Dr. Denton teaches courses in database management, bioinformatics, problem solving and foundations of computer science. Her research interests include data mining, bioinformatics, course management systems for distance education, and computational physics. Anne received the Meier Junior Professor award, she has also accepted the Graduate Coordinator roll starting 2013.



**Dr. Wei Jin, Associate Professor
PhD, University of Buffalo, 2008**

Dr. Wei Jin teaches courses in comparative languages and information retrieval. Her research interests focus on Text Mining, Information Retrieval and social Network analysis and Bioinformatics. Wei received the NSF Career Award in 2015. The second time the computer science department faculty received this award. Wei was also awarded tenure effective July 2015.



Dr. Jun Kong, Associate Professor
PhD, University of Texas at Dallas, 2005

Dr. Kong is interested in visual modeling languages, model driven development and web-data interoperation. He teaches courses in operating systems and human computer interaction. Jun was promoted to Associate Professor with tenure effective Spring, 2012.



Dr. Juan Li, Associate Professor
PhD, University of British Columbia, Vancouver Canada
2008

Dr. Juan Li teaches courses in artificial intelligence, parallel and distributed simulations. Her research interests are in networking and distributed systems. Dr. Li was promoted in summer of 2014.



**Dean Knudson, Associate Professor
PhD, Northwestern University,**

Dr. Knudson is coordinator of the capstone program for bachelor of science students in CS and MIS. In this role he develops external sponsors for projects and mentors the student teams in project management. He teaches CSci 445, Capstone: Software Projects. Dr. Knudson has extensive experience working as a development executive for Microsoft and several other companies. He is a half-time Associate Professor.



**Dr. Simone Ludwig, Associate Professor
PhD, Brunel University, West London, UK 2004**

Dr. Simone Ludwig joined the faculty in the Fall of 2010. She teaches courses in assembly programming and artificial Intelligence. Her research interest combines distributed computing with artificial intelligence. Simone received tenure for July 2015.



**Dr. Kenneth Magel, Professor and Associate Head
PhD, Brown University, 1977**

Dr. Magel teaches a wide variety of courses, including software engineering, programming languages, and social implications of computing. His software engineering research activities explore what makes programming difficult and programs complex. Dr. Magel conducts seminars and courses in XML, C# and .net technologies. He coordinates the graduate programs in software engineering. Beginning July 1, 2007 he became Associate Head for the Department.



**Dr. Kendall E. Nygard, Professor PhD, Virginia
Polytechnic Institute and State University,
1978**

Dr. Nygard teaches courses in simulation, social implications of computing, mathematical modeling, network optimization, systems analysis and design, and software testing and maintenance. His research interests include software systems for military mission planning for cooperative control of autonomous aircraft systems, software agents, and geographic information systems (GIS) for school transportation. Primary sponsors of his research are the Air Force and Navy. Dr. Nygard received the Jefferson Science Fellowship for 2013-14. A highly prestigious appointment to a year in Washington, DC at the U.S. State Department – only a handful of scientists are chosen each year.



Dr. William Perrizo, University Distinguished Professor
Ph.D., University of Minnesota, 1972

Dr. Perrizo teaches courses in database systems, data mining, bioinformatics, and networks. His research interests include database and information systems, data mining, data warehousing, distributed database systems, bioinformatics, precision agriculture, and remotely sensed data management and visualization. His research has been funded by many federal and private sources. Dr. Perrizo is a co-founder of the worldwide Virtual Conference on Bioinformatics. Dr. Perrizo has served in leadership roles for many conferences and on many boards and has a strong international reputation in research. In fall, 2007, he became one of the first seven University Distinguished Professors at NDSU, and in spring, 2008, was named Fargo-Moorhead Chamber of Commerce Professor



Dr. Saeed Salem, Associate Professor
Ph.D., Rensselaer Polytechnic Institute, NY 2009

Dr. Salem teaches courses in Bioinformatics and Data Mining. His research interests are in bioinformatics, biological networks, data mining and machine learning. Saeed received tenure July 2015



**Dr. Brian M. Slator, Professor and Department Head
Ph.D., New Mexico State University, 1988**

Dr. Slator teaches courses in artificial intelligence (AI), multimedia educational systems, computer science problem solving, and comparative languages. His research interests revolve around active environments for learning, including the use of software agents, case-based reasoning, knowledge representation, multimedia systems, distance education, synthetic environments, and multi-user educational games. Dr. Slator is a recipient of the Ernest L. Boyer International Award for Excellence in Teaching, Learning and Technology. Since fall, 2007, he has been Department Head.



**Dr. Vasant Ubhaya, Professor
Ph.D., University of California, Berkeley, 1971**

Dr. Ubhaya teaches courses in Discrete Mathematics, Algorithm Analysis, Performance Evaluation, Mathematical Programming, and Dynamic Programming. He does research in Algorithms, Optimization and Approximation, and publishes his results regularly in journals. He is often invited by professional societies to organize and chair sessions, and give talks at their meetings. His research has been supported by the National Science Foundation and EPSCoR.



**Dr. Gursimran Walia, Associate Professor
Ph.D., Mississippi State University, 2009**

Dr. Walia teaches courses in Software Project Planning and Empirical Software Engineering. His research interests are empirical software engineering, psychology in software engineering, software quality, information assurance and software engineering for computer security. Dr. Walia was awarded the Excellence in Teaching Award. Dr. Walia also received tenure July 2015.



**Dr. Changhui Yan, Associate Professor and
Graduate Coordinator
Ph.D., Iowa State University, 2005**

Dr. Yan teaches courses in Bioinformatics. His research interests include developing computational methods and tools to assist biologists to investigate problems in complex biological systems. Dr. Yan was promoted to Associate Professor in summer 2014.

LECTURERS



**Joan Krush, Academic Advisor/ Lecturer
MA, University of Iowa**

Ms. Krush is a halftime lecturer and advisor. Joan has a MA in student development in Postsecondary Education. She assists our students with their advising needs, leads student recruiting, and teaches sections of University 189. Joan received the outstanding academic advisor award for 2013-14.



**Dr. Mark Pavicic
Assistant Professor of Practice
Phd, Columbia University 1985**

Dr. Pavicic teaches courses in operating systems, game programming, programming languages, and computer organization.



**Dr. Oksana Myronvych,
Assistant Professor of Practice
Phd, North Dakota State University 2010**

Dr. Myronovych teaches courses in Java and the advanced Visual Basic .NET courses. Her research interest has been in the area of requirements engineering. She received a Ph.D. in 2009. She is currently the Treasurer/Secretary for the student chapter of UPE, the Computer Science Honor Society. Dr. Myronvych was promoted to Professor of Practice in December 2010.



**Pratap Kotala, Lecturer
MS, North Dakota State University 2002**

Mr. Kotala teaches courses in systems analysis and design and foundations of programming for MIS majors. He also teaches the distance and continuing education sections of business use of computers.



Joseph Latimer, Lecturer
MBA, California Polytechnic State University (Cal Poly), 1988.

Mr. Latimer teaches courses in sections of business use of computers, UNIX, Java, and Webscripting.



Janet Fleming, Lecturer
MBA, Northeast Louisiana University 1984

Ms. Fleming teaches courses in Microsoft office suite, Visual Basic and COBOL.



Alex Radermacher, Lecturer
MS, North Dakota State University, 2012

Mr. Radermacher teaches courses in JAVA, and Software Engineering.

STAFF



Nathan Olson
Systems Administrator

Nathan Olson joined us July 2014 as the department systems administrator and does all the maintenance and purchasing of all the computer equipment. He also does the configurations for the departmental instructional laboratories.



Carole Huber,
Administrative Assistant

Ms. Huber coordinates the administrative functions of the department. This includes managing research and appropriated funds, purchasing and accounts payable. She is the contact person for all student employment applications, time-slips, and tuition waivers. She coordinates all Teaching/Research/Grading positions for the department.



Annette Sprague
Administrative Secretary

Annette Sprague joined the department May 2015. She carries out office support functions, including data development, reporting, survey work, and assisting students and faculty. She is the assistant to the Graduate Coordinators.



Betty Opheim,
Part-time Administrative Secretary

Ms. Betty Opheim carries out inventory, equipment and software support functions and assists in back-up office support. She is half-time.



Jane Dickerson
Part-time Office Assistant

Mrs. Jane Dickerson is half time office support for the department. Her duties include receptionist responsibilities and office filing.



Guy Hokanson
Programmer Analyst
MS, North Dakota State University, 2010

Mr. Guy Hokanson began his Programmer Analyst position August 2007. His duties include educational games, research and software development.



Kathleen Cox
Programmer Analyst
BS – Indiana University, Bloomington, 1995

Ms. Kathleen Cox began her Programmer Analyst position September 2015. Her duties include advanced graphics software, 3-D modeling, research and software development.



Accomplishments and Goals for 2015-2016

Dr. Magel writes:

The Department of Computer Science and Operations Research had another great year in 2015-16. We continued to teach more than 1,000 student credit hours per faculty member while still having more than \$100,000 per faculty member in competitive, external grants. One of our faculty, Wei Jin, received the prestigious NSF Career Award in 2015. She is the second member of our Department to receive this award. Four faculty received tenure in 2015. Three were promoted to Associate Professor. Our number of majors is more than any other Department in our college and among the largest at NDSU. Professor Kendall Nygard was appointed Director of the NDUS Cybersecurity Program by the Chancellor.

The Department was sad to learn that University Distinguished Professor William Perrizo passed away after a very long, courageous fight with cancer just before the start of the 2016-17 academic year. Dr. Perrizo was a mentor to all of us, and made enormous contributions to the Department, the College, and the University over the last four decades. One Associate Professor, Wei Jin, resigned in late July, 2016 to take a position in Texas.

The Department's multiyear effort to reduce the size of our graduate program while shifting the emphasis to Ph.D. students from M.S. students began to succeed in 2015. While we still had over 200 graduate students, the M.S. numbers declines while the Ph.D. numbers grew slightly. Unfortunately, our similar, multiyear effort to increase our percentage of female undergraduate students has not yet succeeded. That effort continues.

The Department faces some challenges. Our teaching and graduate student loads remain more than we can sustain. Research grants are concentrated among too few faculty. Presently, about one third of our faculty had active grants. We are trying to increase this number by two faculty each of the next three years.

Faculty Publications/Presentation and Course Instruction:

Anne Denton

Peer-reviewed journal papers

1. Honggang Bu, Lakesh K. Sharma, Anne Denton and David W. Franzen, "Sugar Beet Yield and Quality Prediction at Multiple Harvest Dates Using Active-Optical Sensors", *Agronomy Journal*, 108:273–284, 2016.
2. Lakesh K. Sharma, Honggang Bu, Anne Denton, and David W. Franzen, "Active-Optical Sensors Using Red NDVI Compared to Red Edge NDVI for Prediction of Corn Grain Yield in North Dakota, U.S.A.", *Sensors*, 15(11): 27832-27853, 2015.
3. Ajay Kumar, Raed Seetan, Mohamed Mergoum, Vijay K. Tiwari, Muhammad J. Iqbal, Yi Wang, Omar Al-Azzam, Hana Šimková, Ming-Cheng Luo, Jan Dvorak, Yong Q. Gu, Anne Denton, Andrzej Kilian, Gerard R. Lazo and Shahryar F. Kianian, "Radiation hybrid maps of the D-genome of *Aegilops tauschii* and their application in sequence assembly of large and complex plant genomes", *BMC Genomics*, 16:800, 2015.

Peer-reviewed conference and workshop papers

1. Charith D. Chitraranjan, Amal S. Perera, and Anne M. Denton, "Tracking Vehicle Trajectories by Local Dynamic Time Warping of Mobile Phone Signal Strengths and its Potential in Travel-time Estimation," *The Fourth IEEE International Workshop on the Impact of Human Mobility in Pervasive Systems and Applications (PerMoby 2015)*, St. Louis, MO, March 27, 2015.

Abstract-reviewed conference paper

1. Harshada Chavan, Anne M. Denton, David Franzen, John Nowatzki, "Window-based regression analysis of field data," accepted for *Proceedings of the International Conference for Precision Agriculture*, 2016.

Wei Jin

Refereed Publications

1. Abhishek Singh and Wei Jin, "Ranking Summaries for Informativeness and Coherence without Reference Summaries", to appear in *Proceedings of the Twenty-Ninth International Florida Artificial Intelligence Research Society Conference, FLAIRS 2016*, Key Largo, Florida, USA.
2. Vishrawas Gopalakrishnan, Kishlay Jha, Aidong Zhang and Wei Jin, "Generating Hypothesis: Using Global and Local Features in Graph to Discover New Knowledge from Medical Literature," to appear in the proceedings of the 8th International Conference on Bioinformatics and Computational Biology - BICoB 2016, Las Vegas, Nevada, USA.
3. Peng Yan, Wei Jin and Kishlay Jha, "Discovering Semantic Relationships between Concepts from MEDLINE," in the proceedings of the 2016 IEEE Tenth International Conference on Semantic Computing (ICSC 2016), Laguna Hills, California, 2016.
4. Peng Yan and Wei Jin, "Improving Cross-Document Knowledge Discovery through Content and Link Analysis of Wikipedia", *International Journal of LNCS Transactions on Large- Scale Data and Knowledge-Centered Systems (TLDKS)*, pp. 161-184, Springer, 2015.

Pending Publications

1. Peng Peng, Wei Jin, Dong Wang, Dongyan Zhao and Lei Zou, "On The Marriage of SPARQL and Keywords", submitted to *Journal of Web Semantics* (second round of review).

2. Ya Zhu, Wei Jin and Yan Zhang, “Identifying implicit features in sentiment analysis for hotel reviews, an empirical study”, submitted to Journal of Information Science and Engineering.
3. Peng Yan and Wei Jin, “Building Semantic Kernels for Cross-Document Knowledge Discovery using Wikipedia”, submitted to *Knowledge and Information Systems Journal*, Springer (*accept with minor revisions*).
4. Kishlay Jha and Wei Jin, “Mining Hidden Knowledge from the Counterterrorism Dataset Using Graph-Based Approach”, submitted to the 17th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2016).

Dean Knudson

Peer-reviewed publication: 0

Invited National, international presentations: 0

Jun Kong

Peer-reviewed publication: 0

Invited National, international presentations: 0

Juan Li

Refereed Publications

Journals:

1. **J. Li**, N. Zaman*, A. Rayes, E. Custodio, "Semantics-enhanced Online Intellectual Capital Mining Service for Enterprise Customer Centers", to appear in IEEE Transactions on Services Computing (TSC). DOI: 10.1109/TSC.2015.2474861
2. **J. Li**, S. Sen*, N. Zaman*, "Entity Extraction from Business Emails" International Journal of Information Technology and Computer Science (IJITCS), Vol. 7, No. 9, PP.15-22, 2015.

Conference proceedings:

1. **J. Li**, N. Zaman*, Y. Bai, "MedTrust: Towards Trust-assured Social Networking for Healthcare", The IEEE 17th International Conference on e-Health Networking, Applications and Services (Healthcom 2015), Boston, USA, October 14-17 2015.
2. C. Fernando*, E. Zaman*, P. Dawar*, B. Qormosh*, **J. Li**, “A Machine Learning - based Blood Glucose Prediction Model for Personalized Diabetes Management”, The 10th International Workshop on Information Search, Integration, and Personalization (ISIP 2015), Grand Forks, USA, October 1-2, 2015.
3. **J. Li**, N. Zaman*, H. Li, "A Decentralized Locality-preserving Context-aware Service Discovery Framework for the Internet of Things", 12th IEEE International Conference on Services Computing, New York, USA. June 27 - July 2, 2015.

Simone Ludwig

Refereed Publications

1. I. Aljarah, S. A. Ludwig, “A Scalable MapReduce-enabled Glowworm Swarm Optimization Approach for High Dimensional Multimodal Functions”, International Journal of Swarm Intelligence

Research, IGI Global, accepted Oct. 2015.

2. S. A. Ludwig, "MapReduce-based Fuzzy C-Means Clustering Algorithm: Implementation and Scalability", *International Journal of Machine Learning and Cybernetics*, Springer, vol. 6, no. 6, pp. 923-934, 2015.
3. S. A. Ludwig and D. Dawar, "Parallelization of the Enhanced Firework Algorithm using the MapReduce Framework", *International Journal of Swarm Intelligence and Research*, IGI Global, vol. 6, no. 2, pp. 32-51, 2015.
4. S. A. Ludwig, D. Jakobovic, S. Picek, "Analyzing Gene Expression Data: Fuzzy Decision Tree Algorithm applied to the Classification of Cancer Data", 2015 IEEE International Conference on Fuzzy Systems, Istanbul, Turkey, August 2015.
5. C-M. Pintea, S. A. Ludwig, G. C. Crisan, "Adaptability of a Discrete PSO Algorithm applied to the Traveling Salesman Problem with Fuzzy Data", 2015 IEEE International Conference on Fuzzy Systems, Istanbul, Turkey, August 2015.
6. D. Dawar, S. A. Ludwig, "A Differential Evolution Based Axle Detector for Robust Vehicle Classification", 2015 IEEE Congress on Evolutionary Computation, Sendai, Japan, May 2015.
7. S. A. Ludwig, K. Bauer, "Immune Network Algorithm applied to the Optimization of Composite SaaS in Cloud Computing", 2015 IEEE Congress on Evolutionary Computation, Sendai, Japan, May 2015.

Pending Publications

1. S. A. Ludwig, D. Jakobovic, S. Picek, "Classification of Cancer Data: Analyzing Gene Expression Data using a Fuzzy Decision Tree Algorithm", submitted to *Operations Research Applications in Health Care Management*, Springer, 2015 (under review).
2. Y. Huang, S. A. Ludwig, F. Deng, *Sensor Optimization Using a Genetic Algorithm for Structural Health Monitoring in Harsh Environments*, Journal of Civil Structural Health Monitoring, Springer, 2015 (under review).
3. M. Chen, S. A. Ludwig, *Color Image Segmentation Using Fuzzy C-Regression Model*, submitted to *International Journal of Fuzzy Systems*, Springer, 2015 (under review).

Presentations

1. "Parallel Glowworm Swarm Optimization Clustering Algorithm based on MapReduce", Department of Civil Engineering, NDSU, February 18, 2015.
2. "Analyzing Gene Expression Data: Fuzzy Decision Tree Algorithm applied to the Classification of Cancer Data", 2015 IEEE International Conference on Fuzzy Systems, Istanbul, Turkey, August 2015.
3. "Adaptability of a Discrete PSO Algorithm applied to the Traveling Salesman Problem with Fuzzy Data", 2015 IEEE International Conference on Fuzzy Systems, Istanbul, Turkey, August 2015.

Kenneth Magel

Refereed Publications

1. Bilal Al-Ahmad, Kenneth Magel, and Sameer Abufardeh, "A Domain Ontology Based Approach to Identify Effect Types of Security Requirements upon Functional Requirements", *Proceedings of the 2015 International Conference on Knowledge Engineering (ICKE 2015)*, Singapore, February, 2015.
2. Bouchaib Falah and Kenneth Magel, "Taxonomy Dimensions of Complexity Metrics", *Proceedings of the International Conference on Software Engineering Research and Practice (SERP 2015)*,

3. Rahaf Barakat, Kenneth Magel, and Sameer Abufardeh, “Automated Framework to Improve Users’ Awareness on Social Networks”, Proceedings of the 016 International Conference on Electro Information Technology (EIT).
4. Kenneth Magel, “Metrics for Cloud Security”, submitted to IEEE Transactions on Software Engineering, 2015.
5. Kenneth Magel, “A Complexity Model Based on Chunking”, in preparation.

Kendall Nygard

Refereed Publications

1. Pachaiyappan, S., Tang, J and K. Nygard, Wireless Sensor Network Scheduling with an Artificial Bee Colony Method, Proceedings of the 30th Int. Conf. on Computers and Their Applications (CATA-2015), March, 2015
2. Pranav Dass, Shimpi Singh Jadon, Harish Sharma, Jagdish Chand Bansal and Kendall E. Nygard, Hybridization of Classical unidimensional search with ABC to improve exploitation capability, International Journal of Artificial Intelligence and Soft Computing 5(2), 2015
3. Sun, W., Tang, J., Sun, Y., Zhang, Z. and K. Nygard, Specification and Verification of Garbage Collector by Java Modeling Language, Proceeding of the Future Computing Conference, March, 2015
4. Lacher, L., Walia, G., Fagerholm, F., Pagels, M., Nygard, E. K., Münch, J. A Behavior Marker tool for measurement of the Non-Technical Skills of Software Professionals: An Empirical Investigation, International Journal of Software Engineering and Knowledge Engineering, accepted and forthcoming, 2015
5. Param, S., Chowdhury, M. Lampl, D., Dass, P., and K. Nygard, Energy Demand Prediction Using Neural Networks, 28th International Conference on Computers Applications in Industry and Engineering (CAINE), 2015
6. Lacher, L., Walia, G., Fagerholm, F., Pagels, M., Nygard, E. K., Münch, J. A Behavior Marker tool for measurement of the Non-Technical Skills of Software Professionals: An Empirical Investigation, Proceedings of the 27th International Conference on Software Engineering and Knowledge Engineering (SEKE), 2015
7. Dass, P., Chowdhury, M., Lampl, D., and K. Nygard, Risk Perceptions for Genetically Modified Organisms: an Empirical Investigation, In Proceedings of the Software Engineering and Applications conference (SEA), 2015
8. Lampl, D., Chowdhury, M., Dass, P., and K. Nygard, Optimization Modeling in a Smart Grid, Proceedings of the International Conference on Wireless Networks (ICWN), 2015
9. Loree, R., and K. Nygard, Post Deployment Secure Key Management in Wireless Ad hoc Networks, Proceedings of the Future Computing Conference, accepted in 2015, to appear 2016

William Perrizo

Publications:

1. “Vertical Approximate Convex Hull Algorithm for Data Classification”, accepted for 14th IEEE Int’l Conf. on Machine Learning and Applications, Miami, FL, 12/9/15, A. Roy, Md. Hossain and W. Perrizo
2. “Classifying Stocks using pTrees and Investor Sentiment”, ACM-IEEE Int’l Workshop on Mining and Analysis Social Networks for Decision Support (ACM-IEEE ASONAM), Paris, 8/25/15, A. Chatterjee and W. Perrizo.

3. "Linear, Spherical and Radial Functional Classification on Vertically Structured Data", Int'l Conf. on Computers and Applies, Honolulu, 3/20/15, A. Roy and W.Perrizo
4. "Pillar PK-means Clustering for Big Data", Int'l Conf. on Computers and Applies, Honolulu, 3/20/15, A. Roy, Md. Hossain and W.Perrizo.
5. An Orthogonal Information Method for Securing Vertically Structured Data (Paper 7800269), accepted and scheduled for publication The Journal of Information Security, Scientific Research Publishing Corp.

Saeed Salem

Refereed Journals:

1. Aditya Goparaju*, Tyler Brazier*, Saeed Salem. *Mining representative maximal dense cohesive subnetworks. Network Modeling Analysis in Health Informatics and Bioinformatics*, 4(1), pp. 1-11, 2015.

Refereed Conferences/Workshops:

1. Jeff Anderson*, Hyunsook Do, Saeed Salem. Experience report: Mining test results for reasons other than functional correctness. In Proceedings of the 2015 IEEE 26th International Symposium on Software Reliability Engineering (ISSRE), pages 405-415, Nov 2015.
2. Aditya Goparaju*, Bassam Qormosh*, Saeed Salem. Mining maximal subnetworks from interaction network with node attributes. In Proceedings of the 2015 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), pages 1630-1635, Nov 2015.
3. Jeff Anderson*, Saeed Salem, and Hyunsook Do. Striving for Failure: An Industrial Case Study about Test Failure Prediction. In Companion Proceedings of the 37th IEEE International Conference on Software Engineering, May 2015.

Brian Slator

Refereed Journal/Conference/Festival Publications

1. Borchert, O., Slator, B. M., & Hokanson, G. (2015). Lessons Learned in the Development of a Collaborative Learning Environment Designed to Educate Students on the Creation of User-generated Classification Structures. Proceedings of the Eighth International Conference on e-Learning and Innovative Pedagogies. Common Ground Publishing: Santa Cruz, CA. November 2-3.
2. Borchert, O., Hokanson G., Peruri A., Slator, B. M. (2015). Here a Game, There a Game: classification, gamification, and retrieval learning. Proceedings of the 1st International Conference on Higher Education Advances (HEAd'15). Valencia, Spain. June 24-26, Pg. 96-101.
3. Slator, Brian M., Borchert, Otto, Hokanson, Guy (2015). Learning by doing history with smart historical gaming. Proceedings of the 2nd International KES Conference on Smart Education and E-Learning (SEEL-15): Sorrento, Italy, 17-19, June; also as Smart Education and Smart e-Learning, Uskov, Vladimir, Howlett, Robert J., Jain, Lakhmi C. (Eds.), Springer Books: New York, Pg. 207-217.

Book Chapters

1. Yan, Peng, Brian M. Slator, Bradley Vender, Wei Jin, Matti Kariluoma, Otto Borchert, Guy Hokanson, Bob Cosmano, Christopher J. Schaefer, Andrew "Mazz" Marry, Wen Cheng, Vaibhav Aggarwal. (2015). Issues With Intelligent Tutors in Immersive Virtual Environments. Part IV – Changing Tools and Learning Environments in Competencies, Challenges, and Changes in Teaching, Learning and Educational Leadership in the Digital Age. Springer. September 30, 2015.

2. Tan, Joshua and Brian M. Slator (2015). Dollar Bay Revisited: Increasing Compatibility and Performance. McNair Scholars Research Journal, Volume 8, McNair Scholars Program: North Dakota State University, Pg. 73-81.
3. Borchert, O., & Slator, B. M. (2014). Building a Mobile Collaborative Learning Environment for the Identification and Classification of Real World Objects. In G. Vincenti, A. Bucciero, & C. Vaz de Carvalho (Eds.). E-Learning E-Education, and Online Training. Lecture Notes of the Institute for Computer Sciences, Social Informatics, and Telecommunications Engineering. Vol. 138, Springer International Publishing: Cham, Switzerland, pp. 41-48.

Vasant Ubhaya

Publications

Refereed journals (published):

1. Characterizing Best Isotone Approximations in L_p Spaces, $1 \leq p < \infty$. (Jointly with Professor F. Deutsch, Penn State University, main campus, University Park.), Journal of Approximation Theory, Volume 203, March 2016, pages 1-27.

Gursimran Walia

Publications

1. Goswami, A.*, **Walia, G.** "Teaching Software Inspections to Software Engineering Students through Practical Training and Reflection," To appear in Special Issue of Computers in Education Journal. **(Accepted)**
2. Anu, V.*, **Walia, G.**, Hu, W., Carver, J., and Bradshaw, G. "Error Abstraction Accuracy and Fixation during Error-based Requirements Inspections", Fast Abstract Track at 27th International Symposium on Software Reliability Engineering, Ottawa, Canada 2016. **(Accepted)**
3. Goswami, A.*, **Walia, G.** "Using Learning Styles to Staff and Improve Software Inspection Team Performance", Industry Track at 27th IEEE International Symposium on Software Reliability Engineering, Ottawa, Canada (ISSRE 2016). [Acceptance Rate = 34% (45/130)] **(Accepted)**
4. Anu, V.*, **Walia, G.**, Hu, W., Carver, J., and Bradshaw, G. "Using a Cognitive Psychology Perspective on Errors to Improve Requirements Quality: An Empirical Investigation", 27th International Symposium on Software Reliability Engineering, Ottawa, Canada 2016. [Acceptance Rate = 35% (45/130)] **(Accepted)**
5. Goswami, A.*, **Walia, G.**, McCourt, M., and Padmanabhan, G. "Using Eye Tracking to Investigate Reading Patterns and Learning Styles of Software Requirement Inspectors to Enhance Inspection Team Outcomes", 10th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement. ESEM 2016. [Acceptance Rate = 22% (27/122)] **(Accepted)**
6. Hu, W., Carver, J., Anu, V. K.*, **Walia, G.**, and Bradshaw, G. "Detection of Requirement Errors and Faults via a Human Error Taxonomy: A Feasibility Study", 10th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement. ESEM 2016 [Acceptance Rate = 22% (27/122)] **(Accepted)**
7. Anu, V. K.*, **Walia, G.**, Hu, W., Carver, J., and Bradshaw, G. "Effectiveness of Human Error Taxonomy during Requirements Inspection: An Empirical Investigation", 2016 International Conference on Software Engineering and Knowledge Engineering. SEKE 2016.
8. Goswami, A.*, **Walia, G.** "Teaching Software Inspections to Software Engineering Students through Practical Training and Reflection," 123rd Annual Society of Engineering Education Conference on Computer Education, June 26-29, ASEE 2016, New Orleans, LA. **(Accepted to appear in Special Issue of Computers in Education Journal)**
- Clarke, P., Davis, D., Fu, Y., Kiper, J., **Walia, G.** "Integrating Testing into CS/IT Courses Supported by a Cyberlearning Environment," Envisioning the Future of Undergraduate STEM Education: Research and Practice, Washington, DC, 2016.

10. Goswami, A.*, **Walia, G.**, and Singh, A. "Using Learning Styles of Software Professionals to Improve their Inspection Team Performance," International Journal of Software Engineering and Knowledge Engineering. 2015.
11. Lacher, L., **Walia, G.**, Fagerholm, F., Pagels, M., Nygard, E. K., Münch, J. "A Behavior Marker tool for measurement of the Non-Technical Skills of Software Professionals: An Empirical Investigation," International Journal of Software Engineering and Knowledge Engineering. 2015.
12. Radermacher, A.*, **Walia, G.**, and Knudson, K. "Missed Expectations: Where CS Students Fall Short in the Software Industry," Accepted to Appear in the Special Issue (entitled 'Software Education Today') of 'CrossTalk – The Journal of Defense Software Engineers, January 2015.
13. Goswami, A.*, **Walia, G.**, and Singh, A. "Using Learning Styles of Software Professionals to Improve their Inspection Team Performance," Proceedings of the 27th International Conference on Software Engineering and Knowledge Engineering. July 6- 8, SEKE 2015 Pittsburgh, USA. p. 680-685.
14. Lacher, L., **Walia, G.**, Fagerholm, F., Pagels, M., Nygard, E. K., Münch, J. "A Behavior Marker tool for measurement of the Non-Technical Skills of Software Professionals: An Empirical Investigation," Proceedings of the 27th International Conference on Software Engineering and Knowledge Engineering. July 6-8, SEKE 2015, Pittsburg, USA. p. 409-414
15. Carver, J., **Walia, G.**, and Bradshaw, G. "First International Workshop on Applications of Human Error Research to Improve Software Engineering (WAHESE 2015)" The 37th International Conference on Software Engineering, ICSE 2015, Florence Italy. May 23, 2015
<http://humanerrorinse.org/workshops/WAHESE15/index.htm>

Changhui Yan

Refereed Publications

Journal Papers (with students underlined)

1. Horvath, D.P., Hansen, S.A., Moriles-Miller, J.P., Pierik, R., Yan, C., Clay, D.E., Scheffler, B., Clay, S.A. RNAseq reveals weed-induced PIF3-like as a candidate target to manipulate weed stress response in soybean. *New Phytologist*. 2015, 207(1):196-210.
2. Singh, R.K., Cho, K., Padi, S.K., Yu, J., Haldar, M., Mandal, T., Yan, C., Cook, G., Guo, B., Mallik, S., Srivastava, D.K. Mechanism of N-acylthiourea Mediated Activation of Human Histone Deacetylase 8 (HDAC8) at Molecular and Cellular levels. *J Biol Chem*. 2015 290(10):6607-6619.
3. LeBoldus, J.M., Kinzer, K., Zhu, Y., Yan, C., Friesen, T. and Brueggeman, R. Genotype-by-sequencing of the plant pathogenic fungi *Pyrenophora teres* and *Sphaerulina musiva* utilizing Ion Torrent sequence technology. *Molecular Plant Pathology* 2015, 16(6):623-632.

Conference Proceedings (with students underlined)

1. Cheng, W., and **Yan, C.** Mining Graph Patterns in the Protein-RNA Interfaces. In Proceedings of IEEE International Conference on Bioinformatics and Biomedicine, 2015, 1267-1271
2. Zhu, Y., and **Yan, C.** Graph methods for predicting the function of chemical compounds. *In Proceedings of the IEEE International Conference on Granular Computing*. 2014, 386 – 390.

RESEARCH/CREATIVE ACTIVITY

Grants/Contracts/Research:

COMPUTER SCIENCE DEPARTMENT GRANTS AND CONTRACTS, PART 1 PROJECTS INITIATED PRIOR TO JULY 1, 2015, AND CONTINUING INTO THE 2015-2016 ACADEMIC YEAR

YEAR	GRANT #	PRINCIPAL INVESTIGATOR OR	TITLE	FUNDING SOURCE	AMOUNT
7-1-11 to 6-30-16	17967	Denton	Data Driven Support for the Smart Farm	NSF	254,499
8-1-13 to 7-31-17	18079	Denton/ Knudson	NDSU Computer Science Industry Consortium Program (ICP)	Phoenix International	15,000
7-1-11 to 6-30-16	18751	Denton/ Nowaski	Data Driven Support for the Smart Farm	NSF	108,014
2/1/15 to 1/31/20	23459	Jin	CAREER Award	NSF	249,216
7-1-11 to 6-30-16	18752	Knudson	Data Driven Support for the Smart Farm	NSF	24,928
9-15-11 to 8-31-16	18160	Kong	MRI – Development of a Cross Platform Infrastructure	NSF	300,000
10/15/13 to 7/31/15	22229	Ludwig Knudson	NDSU Computer Science Industry Consortium Program (ICP)	CNE	15,000
8-1-12 to 7-31-15	18083	Ludwig	NDSU Computer Science Industry Consortium Program (ICP)	RDO Equipment Company	15,000
8/1/14 to 7/31/17	22564	Salem	III Small: A Novel Framework for Mining Multi-relation and labeled Graphs	NSF	345,551
8/1/14 to 7/31/17	23471	Walia	Integrating Software Engineering and Human Error Models - TRAVEL	NSF	9,000
8/1/14 to 7/31/17	22563	Walia	Integrating Software Engineering and Human Error Models	NSF	171,242
8/1/13 to 7/31/16	20516	Yan	ABI Innovation	NSF	301,702
9/1/13 to 8/31/16	20756	Yan	ABC-A Biology Cloud	NSF	314,774
TOTAL					2,123,926

**COMPUTER SCIENCE DEPARTMENT GRANTS AND CONTRACTS
PROJECTS INITIATED DURING THE JULY 1, 2015 TO JUNE 30, 2016 TIME PERIOD**

YEAR	GRANT #	PRINCIPAL INVESTIGA TOR	TITLE	FUNDING SOURCE	AMOUNT
10/15 to 7/31/17	23780	Denton	Strategic Planning Project	NSF	203,890
11/12/15 to 4/30/16	25661	Denton	Bioinformatics Seed Grant	NSF	32,260
7/1/15 to 6/30/16	26433	Denton	Bioinformatics Seed Grant	NSF	4,985
5/1/16 to 4/30/17	26656	Ludwig	Bioinformatics Seed Grant	NSF	5,751
9/1/15 to 8/31/19	24209	Walia	Collaborative Research – Engaged student learning	NSF	132,005
7/1/15 to 6/30/16	25259	Yan	Bioinformatics Seed Grant	UND	14,832
7/1/15 to 6/30/16	25656	Yan	Bioinformatics Seed Grant	UND	11,124
Totals					404,847

Capstone Projects:

Adventium	John Deere
ATC	Microsoft
Bolder Thinking	NICTA (Australia)
Capturis (NISC)	Rockwell
CNE	UPGPI
Ericsson (Sweden)	Valley Express
IBM	
Inwerken (Germany)	

2015 Projects	Opinion of Capstone Program*	Willing to sponsor next year	Final Grade from Sponsor	Comments - mine	Comments - Sponsor/Mentor
Adventium	Very Good	For Sure	A	First time with this company and everything went very well.	"This is an excellent opportunity for both the students and the industry sponsors." "It was a pleasure working with this team." "Each of them will be great contributors on software/hardware development teams in industry."
ATC	Very Good	Likely	A	Good project, team did not have a lot of networking background but picked up on it quickly and did a nice job	"It's always a lot of fun"
Bolder Thinking	Very Good	For Sure	A	Great job done by 3 of the 4 that started the project. One was pulled off and given an F for not contributing. Very nice UI on their application.	"The three remaining team members did a great job"
Capturis (NISC)	Very Good and Good	For sure and Marginal	D	Major communication issues - sponsor thought team was telling him things were great when they were not getting tasks completely finished	"I hate to do this (give a D), because I have had such a positive experience with NDSU's Capstone project in the past, but we are unable to leverage a single line of code that the team produced" "Dean has done a fantastic job of developing this program"

					over the years. It is always a joy to work with him."
CNE	Good	For Sure	A-	Picked up from where some consortium work had been done earlier.	This "front end" work is getting close - "back end" work being done by consortium needs lots more work
Ericsson -(Sweden)	Very Good	For Sure	A-	Good job on a cool project - needed to learn lots of new things (communications, mobile development, etc.)	"I really enjoy these projects." "Love to do it again if line organization agrees and you'll have me!"
IBM	Good	For Sure	A	Somewhat different kind of project that was more finding and stringing together the right set of tools in the right way. (Mentors are old NDSU grads who worked on an IBM capstone team then were hired by IBM a few years ago.)	"Lack of Linux experience is a concern from multiple mentors that I see."
Inwerken (Germany)	Good	Likely	B-	OK project, team didn't get quite as far as I would have liked	"Considering the framework complexity they did a good job - overall."
John Deere	Very Good	Depends on legal issues	A	Very nice technical work, good teamwork	"Based on the final report-outs, I have been impressed with the projects and their execution."
Microsoft	Very Good	For Sure (need to work through legal issues)	A	One of the best capstone projects in the 10 years I have been doing them. Great team!	"Excellent work!"
NICTA (Australia)	Very Good	For sure	A+	First project with Australia - things went very well	"I really enjoyed the process and working with the team."
Rockwell	Very Good	For Sure	A-	Another good project with a longtime sponsor	"thank you for having us again this year and I enjoy participating!"
UGPTI	Very Good	For Sure	A+	Probably the best project yet for UGPTI after about ten others.	"It is a great program for both the students and customers!"

Valley Express	Good	Likely	A	Good project, team made significant progress	"Everyone was great to work with and I can't think of anything they could have done better."
	10 Very Good 5 Good	10 For Sure 3 likely 1 marginal 1 depends on legal			

Faculty Advisees – 2015 -2016

Last Name	First Name	Academic Level	Major Description	Advisor Name
Li	Shuhang	Graduate	MS-Computer Science	Dai,Rui
Li	Shuhang	Graduate	PHD-Computer Science	Dai,Rui
Grindall	Brandon	Senior	BS-Computer Science	Denton,Anne
McEnroe	Thomas	Senior	BS-Computer Science	Denton,Anne
Ryan	Kyle	Senior	BS-Computer Science	Denton,Anne
Agasaladinni Reddy	Prabhakara Reddy	Graduate	MS-Computer Science	Denton,Anne
Badu	Sadhana	Graduate	MS-Computer Science	Denton,Anne
Battu	Babitha	Graduate	MS-Computer Science	Denton,Anne
Bouret	Megan	Graduate	MS-Computer Science	Denton,Anne
Dawar	Priyanka	Graduate	MS-Computer Science	Denton,Anne
Depa	Amarender Reddy	Graduate	MS-Computer Science	Denton,Anne
Fernando	Warnakulasuriya Chandima	Graduate	MS-Computer Science	Denton,Anne
Gautam	Nitendra	Graduate	MS-Computer Science	Denton,Anne
Gottimukkula	Vijaya Chanderrao	Graduate	MS-Computer Science	Denton,Anne
Gurram	Rachana	Graduate	MS-Computer Science	Denton,Anne
Hossain	Md Shakhawat	Graduate	MS-Computer Science	Denton,Anne
Hu	Ping	Graduate	MS-Computer Science	Denton,Anne
Jha	Kishlay	Graduate	MS-Computer Science	Denton,Anne
Johnson	Joseph	Graduate	MS-Computer Science	Denton,Anne
Kakarlapudi	Madhumitha	Graduate	MS-Computer Science	Denton,Anne
Killada	Bala Venkata Ram	Graduate	MS-Computer Science	Denton,Anne
Kolte	Ravi	Graduate	MS-Computer Science	Denton,Anne
Krishan	Siddharth	Graduate	MS-Computer Science	Denton,Anne
Meng	Zhangyu	Graduate	MS-Computer Science	Denton,Anne
Mitchell	Brent	Graduate	MS-Computer Science	Denton,Anne
Narra	Sravan	Graduate	MS-Computer Science	Denton,Anne
Nuthalapati	Aditya	Graduate	MS-Computer Science	Denton,Anne
Nyavanandi	Deepika	Graduate	MS-Computer Science	Denton,Anne
Raveendran	Amritha	Graduate	MS-Computer Science	Denton,Anne
Sarkar	Sourav	Graduate	MS-Computer Science	Denton,Anne
Shewalkar	Apeksha	Graduate	MS-Computer Science	Denton,Anne
Shrestha	Anuj	Graduate	MS-Computer Science	Denton,Anne
Subramaniam	Rajesh	Graduate	MS-Computer Science	Denton,Anne
Tekeste	Noah	Graduate	MS-Computer Science	Denton,Anne
Vethanayagam	Suhanthan	Graduate	MS-Computer Science	Denton,Anne
Xu	Xing	Graduate	MS-Computer Science	Denton,Anne
Zheng	Hailong	Graduate	MS-Computer Science	Denton,Anne
Jones	Andrew	Graduate	MSE-Software	Denton,Anne

			Engineering	
Peterson	Jill	Graduate	MSE-Software Engineering	Denton,Anne
Agarwal	Abhishek	Graduate	MS-Software Engineering	Denton,Anne
Christeson	Eric	Graduate	MS-Software Engineering	Denton,Anne
Ahsan	Mostofa	Graduate	PHD-Computer Science	Denton,Anne
Al Sawwa	Jamil	Graduate	PHD-Computer Science	Denton,Anne
Bouret	Megan	Graduate	PHD-Computer Science	Denton,Anne
Chitraranjan	Charith	Graduate	PHD-Computer Science	Denton,Anne
Kabir	MD Faisal	Graduate	PHD-Computer Science	Denton,Anne
Sweet	Joshua	Graduate	PHD-Computer Science	Denton,Anne
Zaman	Eshita	Graduate	PHD-Computer Science	Denton,Anne
Egbujor	Francis	Freshman	BS-Computer Science	Dept. Assigned
Hage	Damon	Junior	BS-Computer Science	Dept. Assigned
Agrama	Ahmed	Sophomore	BS-Computer Science	Do,Hyunsook
Dennis	Noah	Graduate	MSE-Software Engineering	Do,Hyunsook
Intekhab	Ahmed	Graduate	MSE-Software Engineering	Do,Hyunsook
Taleb-Agha	Abdul-Rahman	Graduate	MSE-Software Engineering	Do,Hyunsook
Vinta	Naveen	Graduate	MSE-Software Engineering	Do,Hyunsook
Bhurale	Lohit	Graduate	MS-Software Engineering	Do,Hyunsook
Kanajal Chandrakanth	Spoorthy	Graduate	MS-Software Engineering	Do,Hyunsook
Kumar	Pranay	Graduate	MS-Software Engineering	Do,Hyunsook
Yang	Juechen	Graduate	MS-Software Engineering	Do,Hyunsook
Abusaqer	Muhammad	Graduate	PHD-Software Engineering	Do,Hyunsook
Anderson	Jeffrey	Graduate	PHD-Software Engineering	Do,Hyunsook
Eda	Madhusudana	Graduate	PHD-Software Engineering	Do,Hyunsook
Hettiarachchi	Charitha	Graduate	PHD-Software Engineering	Do,Hyunsook
Keller	Colton	Senior	BS-Computer Science	Duncan,Benton
Burke	Henry	Sophomore	BA-Computer Science	Jin,Wei
Crowley	Maxwell	Senior	BA-Computer Science	Jin,Wei
Schumacher	Colton	Senior	BA-Computer Science	Jin,Wei
Avalos	Cody	Sophomore	BS-Computer Science	Jin,Wei

Agrama	Ahmed	Junior	BS-Computer Science	Jin,Wei
Avalos	Cody	Junior	BS-Computer Science	Jin,Wei
Demarais	Sarah	Junior	BS-Computer Science	Jin,Wei
Gerard	Mitchell	Junior	BS-Computer Science	Jin,Wei
Raboin	James	Junior	BS-Computer Science	Jin,Wei
Rider	Sean	Junior	BS-Computer Science	Jin,Wei
St. Amant	Scott	Junior	BS-Computer Science	Jin,Wei
Arneson	Corey	Senior	BS-Computer Science	Jin,Wei
Demarais	Sarah	Senior	BS-Computer Science	Jin,Wei
Gerard	Mitchell	Senior	BS-Computer Science	Jin,Wei
Nilles	Alexander	Senior	BS-Computer Science	Jin,Wei
Radtke	Erin	Senior	BS-Computer Science	Jin,Wei
Singh	Niharika	Senior	BS-Computer Science	Jin,Wei
Haich	Abram	Graduate	MS-Computer Science	Jin,Wei
Jha	Kishlay	Graduate	MS-Computer Science	Jin,Wei
Phadke	Swapna	Graduate	MS-Computer Science	Jin,Wei
Rajan	Prateek	Graduate	MS-Computer Science	Jin,Wei
Agarwal	Palak	Graduate	MS-Software Engineering	Jin,Wei
Mao	Xiaoli	Graduate	MS-Software Engineering	Jin,Wei
Li	Xin	Graduate	PHD-Computer Science	Jin,Wei
Mercer	Andrew	Sophomore	BA-Computer Science	Kong,Jun
Casselman	Stephen	Senior	BA-Computer Science	Kong,Jun
Herrmann	Brody	Senior	BA-Computer Science	Kong,Jun
Askegard	Gage	Junior	BS-Computer Science	Kong,Jun
Banick	Ryley	Junior	BS-Computer Science	Kong,Jun
Sindelar	Samuel	Junior	BS-Computer Science	Kong,Jun
Smestad	Adam	Junior	BS-Computer Science	Kong,Jun
Wiesenborn	Jesse	Junior	BS-Computer Science	Kong,Jun
Abrol	Nimish	Senior	BS-Computer Science	Kong,Jun
Askegard	Gage	Senior	BS-Computer Science	Kong,Jun
Gulbranson	Erin	Senior	BS-Computer Science	Kong,Jun
Hanson	Jonathan	Senior	BS-Computer Science	Kong,Jun
Jacobsen	Parker	Senior	BS-Computer Science	Kong,Jun
Kelter	Aaron	Senior	BS-Computer Science	Kong,Jun
Nelson	Rebecca	Senior	BS-Computer Science	Kong,Jun
Nelson	Ryan	Senior	BS-Computer Science	Kong,Jun
Smestad	Adam	Senior	BS-Computer Science	Kong,Jun
Yadav	Nikhil	Senior	BS-Computer Science	Kong,Jun
Mahabaleshwar	Mahesh	Graduate	MS-Computer Science	Kong,Jun
Harikrishnan	Deepthi	Graduate	MS-Software Engineering	Kong,Jun
Limke	Jed	Graduate	MS-Software Engineering	Kong,Jun
Chakravarthi	Satheesh	Graduate	PHD-Computer Science	Kong,Jun

Roy	Arjun	Graduate	PHD-Computer Science	Kong,Jun
Thronson	Bryce	Senior	BS-Computer Science	Kotala,Pratap
Bolgrean	Logan	Freshman	BA-Computer Science	Krush, Joan
Dao	Hung	Freshman	BA-Computer Science	Krush, Joan
Eggers	Evan	Freshman	BA-Computer Science	Krush, Joan
Silva	Diego	Freshman	BA-Computer Science	Krush, Joan
Bendickson	Tyler	Sophomore	BA-Computer Science	Krush, Joan
Bolgrean	Logan	Sophomore	BA-Computer Science	Krush, Joan
Diemer	Nathan	Sophomore	BA-Computer Science	Krush, Joan
Feikema	Nicholas	Junior	BA-Computer Science	Krush, Joan
McCrory	Michael	Junior	BA-Computer Science	Krush, Joan
Schleif	Kristin	Junior	BA-Computer Science	Krush, Joan
Thronset	Andrew	Junior	BA-Computer Science	Krush, Joan
McCrory	Michael	Senior	BA-Computer Science	Krush, Joan
Thronset	Andrew	Senior	BA-Computer Science	Krush, Joan
Ames	Christian	Freshman	BS-Computer Science	Krush, Joan
Anderson	Quin	Freshman	BS-Computer Science	Krush, Joan
Anderson	Tye	Freshman	BS-Computer Science	Krush, Joan
Aweis	Abukar	Freshman	BS-Computer Science	Krush, Joan
Baker	Jack	Freshman	BS-Computer Science	Krush, Joan
Baumann	Jacob	Freshman	BS-Computer Science	Krush, Joan
Beckmann	Donovan	Freshman	BS-Computer Science	Krush, Joan
Besser	Jacob	Freshman	BS-Computer Science	Krush, Joan
Bettin	Eli	Freshman	BS-Computer Science	Krush, Joan
Beyer	Aaron	Freshman	BS-Computer Science	Krush, Joan
Bidwell	Beau	Freshman	BS-Computer Science	Krush, Joan
Birrenkott	Joshua	Freshman	BS-Computer Science	Krush, Joan
Boonstra	Derek	Freshman	BS-Computer Science	Krush, Joan
Boppre	Brandon	Freshman	BS-Computer Science	Krush, Joan
Breidenbach	Andrew	Freshman	BS-Computer Science	Krush, Joan
Brekhus	Spencer	Freshman	BS-Computer Science	Krush, Joan
Bring	Hunter	Freshman	BS-Computer Science	Krush, Joan
Brown	Ajay	Freshman	BS-Computer Science	Krush, Joan
Brunette	Colton	Freshman	BS-Computer Science	Krush, Joan
Carvalho Alvarenga	Renato	Freshman	BS-Computer Science	Krush, Joan
Choesang	Kalden	Freshman	BS-Computer Science	Krush, Joan
Chrest	Quinn	Freshman	BS-Computer Science	Krush, Joan
Comez	Alexander	Freshman	BS-Computer Science	Krush, Joan
Conlin	Riley	Freshman	BS-Computer Science	Krush, Joan
Cook	Spencer	Freshman	BS-Computer Science	Krush, Joan

Dao	Hung	Freshman	BS-Computer Science	Krush, Joan
DeCoteau	Christian	Freshman	BS-Computer Science	Krush, Joan
Dhakal	Sagar	Freshman	BS-Computer Science	Krush, Joan
Drocic	Anel	Freshman	BS-Computer Science	Krush, Joan
Eggers	Evan	Freshman	BS-Computer Science	Krush, Joan
Elliott	Faith	Freshman	BS-Computer Science	Krush, Joan
Erickson	Melquan	Freshman	BS-Computer Science	Krush, Joan
Ethier	Cameron	Freshman	BS-Computer Science	Krush, Joan
Farahmand	Keyan	Freshman	BS-Computer Science	Krush, Joan
Fero	Jarrett	Freshman	BS-Computer Science	Krush, Joan
Fradenburgh	Connor	Freshman	BS-Computer Science	Krush, Joan
Gaffaney	Tyler	Freshman	BS-Computer Science	Krush, Joan
Garcia Burgos	Alejandro	Freshman	BS-Computer Science	Krush, Joan
Gasal	Blayke	Freshman	BS-Computer Science	Krush, Joan
Gerdes	Mark	Freshman	BS-Computer Science	Krush, Joan
Gjerdingen	Elijah	Freshman	BS-Computer Science	Krush, Joan
Graham	Joshua	Freshman	BS-Computer Science	Krush, Joan
Grosbach	Matthew	Freshman	BS-Computer Science	Krush, Joan
Hanlon	Terrance	Freshman	BS-Computer Science	Krush, Joan
Hilger	Nicholas	Freshman	BS-Computer Science	Krush, Joan
Ho	Andy	Freshman	BS-Computer Science	Krush, Joan
Ho	Leon	Freshman	BS-Computer Science	Krush, Joan
Hoffmockel	Jarod	Freshman	BS-Computer Science	Krush, Joan
Hunter	Tim	Freshman	BS-Computer Science	Krush, Joan
Hussein	Abdulrahman	Freshman	BS-Computer Science	Krush, Joan
Johnson	Clinton	Freshman	BS-Computer Science	Krush, Joan
Johnson	Noah	Freshman	BS-Computer Science	Krush, Joan
Kaushik	Sarthak	Freshman	BS-Computer Science	Krush, Joan
Keller	Carson	Freshman	BS-Computer Science	Krush, Joan
Ketterling	Price	Freshman	BS-Computer Science	Krush, Joan
Khodair	Menah	Freshman	BS-Computer Science	Krush, Joan
Kimball	Jackson	Freshman	BS-Computer Science	Krush, Joan
Klobe	Nathaniel	Freshman	BS-Computer Science	Krush, Joan
Leber	Tyler	Freshman	BS-Computer Science	Krush, Joan
Mack	Nicholas	Freshman	BS-Computer Science	Krush, Joan
Marinov	Simon	Freshman	BS-Computer Science	Krush, Joan
Martins Barreto	Nathan	Freshman	BS-Computer Science	Krush, Joan
Mbanu	Gerald	Freshman	BS-Computer Science	Krush, Joan
McMillan	John	Freshman	BS-Computer Science	Krush, Joan
Melroe	Zachary	Freshman	BS-Computer Science	Krush, Joan
Mohan	Benjamin	Freshman	BS-Computer Science	Krush, Joan
Morehead	Jake	Freshman	BS-Computer Science	Krush, Joan
Mortenson	Shane	Freshman	BS-Computer Science	Krush, Joan

Myers	Eric	Freshman	BS-Computer Science	Krush, Joan
Nameniuk	Theodore	Freshman	BS-Computer Science	Krush, Joan
Nelson	Logan	Freshman	BS-Computer Science	Krush, Joan
Nguyen	James	Freshman	BS-Computer Science	Krush, Joan
Ogeto	Brendan	Freshman	BS-Computer Science	Krush, Joan
Olfert	Bryon	Freshman	BS-Computer Science	Krush, Joan
Olson	Jaden	Freshman	BS-Computer Science	Krush, Joan
Olson	Matthew	Freshman	BS-Computer Science	Krush, Joan
Olson	Mitchell	Freshman	BS-Computer Science	Krush, Joan
Omang	Richard	Freshman	BS-Computer Science	Krush, Joan
Onufer	George	Freshman	BS-Computer Science	Krush, Joan
Panek	Blair	Freshman	BS-Computer Science	Krush, Joan
Poer	Nathan	Freshman	BS-Computer Science	Krush, Joan
Pufall	Ryan	Freshman	BS-Computer Science	Krush, Joan
Rage	William	Freshman	BS-Computer Science	Krush, Joan
Rants	Jamison	Freshman	BS-Computer Science	Krush, Joan
Reko	Matthew	Freshman	BS-Computer Science	Krush, Joan
Rudisel	Brandon	Freshman	BS-Computer Science	Krush, Joan
Saari	Alexis	Freshman	BS-Computer Science	Krush, Joan
Sawatzke	Justin	Freshman	BS-Computer Science	Krush, Joan
Scheiber	Andrew	Freshman	BS-Computer Science	Krush, Joan
Schoepp	Blake	Freshman	BS-Computer Science	Krush, Joan
Schumacher	Mitchell	Freshman	BS-Computer Science	Krush, Joan
Schwab	Zachary	Freshman	BS-Computer Science	Krush, Joan
Seo	Youngkyung	Freshman	BS-Computer Science	Krush, Joan
Sindhu	Vishavjeet	Freshman	BS-Computer Science	Krush, Joan
Sjosten	Samuel	Freshman	BS-Computer Science	Krush, Joan
Skindelién	Jonathan	Freshman	BS-Computer Science	Krush, Joan
Sletten	Aaron	Freshman	BS-Computer Science	Krush, Joan
Smith	Jarod	Freshman	BS-Computer Science	Krush, Joan
Stafslén	Kyler	Freshman	BS-Computer Science	Krush, Joan
Stensgard	Beau	Freshman	BS-Computer Science	Krush, Joan
Stewart	Marcus	Freshman	BS-Computer Science	Krush, Joan
Strack	Samara	Freshman	BS-Computer Science	Krush, Joan
Sullivan	Alexandra	Freshman	BS-Computer Science	Krush, Joan
Syverson	Alex	Freshman	BS-Computer Science	Krush, Joan
Tassava	Bryan	Freshman	BS-Computer Science	Krush, Joan
Tennihill	Christopher	Freshman	BS-Computer Science	Krush, Joan
Wald	Tristan	Freshman	BS-Computer Science	Krush, Joan
Walker	Matthew	Freshman	BS-Computer Science	Krush, Joan
Wang	Sam	Freshman	BS-Computer Science	Krush, Joan
Weidner	Nathan	Freshman	BS-Computer Science	Krush, Joan
Weller	Benjamin	Freshman	BS-Computer Science	Krush, Joan

Werkman	Hunter	Freshman	BS-Computer Science	Krush, Joan
Wolff	Chase	Freshman	BS-Computer Science	Krush, Joan
Zickermann	Joshua	Freshman	BS-Computer Science	Krush, Joan
Zink	Zachary	Freshman	BS-Computer Science	Krush, Joan
Zottnick	William	Freshman	BS-Computer Science	Krush, Joan
Alexander	Devin	Sophomore	BS-Computer Science	Krush, Joan
Ames	Christian	Sophomore	BS-Computer Science	Krush, Joan
Arutyunov	Ruben	Sophomore	BS-Computer Science	Krush, Joan
Baker	Jack	Sophomore	BS-Computer Science	Krush, Joan
Beckmann	Donovan	Sophomore	BS-Computer Science	Krush, Joan
Bedard	Kelsey	Sophomore	BS-Computer Science	Krush, Joan
Besser	Jacob	Sophomore	BS-Computer Science	Krush, Joan
Bettin	Eli	Sophomore	BS-Computer Science	Krush, Joan
Beyer	Aaron	Sophomore	BS-Computer Science	Krush, Joan
Beyer	Adam	Sophomore	BS-Computer Science	Krush, Joan
Bhardwaj	Akshay	Sophomore	BS-Computer Science	Krush, Joan
Bhasin	Aditya	Sophomore	BS-Computer Science	Krush, Joan
Billstrom	Joseph	Sophomore	BS-Computer Science	Krush, Joan
Boppre	Brandon	Sophomore	BS-Computer Science	Krush, Joan
Brekhus	Spencer	Sophomore	BS-Computer Science	Krush, Joan
Brown	Ajay	Sophomore	BS-Computer Science	Krush, Joan
Brown	Alex	Sophomore	BS-Computer Science	Krush, Joan
Buchholz	Aaron	Sophomore	BS-Computer Science	Krush, Joan
Carney	Jacob	Sophomore	BS-Computer Science	Krush, Joan
Carpenter	Nicholas	Sophomore	BS-Computer Science	Krush, Joan
Chrest	Quinn	Sophomore	BS-Computer Science	Krush, Joan
Conlin	Riley	Sophomore	BS-Computer Science	Krush, Joan
Cook	Spencer	Sophomore	BS-Computer Science	Krush, Joan
Coutts	Benjamin	Sophomore	BS-Computer Science	Krush, Joan
Covington	Leighton	Sophomore	BS-Computer Science	Krush, Joan
Cullen	Jayden	Sophomore	BS-Computer Science	Krush, Joan
Curran	Brendan	Sophomore	BS-Computer Science	Krush, Joan
D'Ambrosio	Zachary	Sophomore	BS-Computer Science	Krush, Joan
Davis	Barrett	Sophomore	BS-Computer Science	Krush, Joan
DeCoteau	Christian	Sophomore	BS-Computer Science	Krush, Joan
Fagan	Kevin	Sophomore	BS-Computer Science	Krush, Joan
Fero	Jarrett	Sophomore	BS-Computer Science	Krush, Joan
Fradenburgh	Connor	Sophomore	BS-Computer Science	Krush, Joan
Fry	Joshua	Sophomore	BS-Computer Science	Krush, Joan
Geray	Colin	Sophomore	BS-Computer Science	Krush, Joan
Graner	Andrew	Sophomore	BS-Computer Science	Krush, Joan
Grosz	Zachary	Sophomore	BS-Computer Science	Krush, Joan
Hapip	Benjamin	Sophomore	BS-Computer Science	Krush, Joan

Hartman	Jordan	Sophomore	BS-Computer Science	Krush, Joan
Hilger	Nicholas	Sophomore	BS-Computer Science	Krush, Joan
Jacques	Christian	Sophomore	BS-Computer Science	Krush, Joan
Johnson	Clinton	Sophomore	BS-Computer Science	Krush, Joan
Ketterling	Price	Sophomore	BS-Computer Science	Krush, Joan
Kimball	Jackson	Sophomore	BS-Computer Science	Krush, Joan
Kinn	Otto	Sophomore	BS-Computer Science	Krush, Joan
Klobe	Nathaniel	Sophomore	BS-Computer Science	Krush, Joan
Kuntz	Cody	Sophomore	BS-Computer Science	Krush, Joan
Leatherman	Garrett	Sophomore	BS-Computer Science	Krush, Joan
Liang	Tianyi	Sophomore	BS-Computer Science	Krush, Joan
Livingston	Wesley	Sophomore	BS-Computer Science	Krush, Joan
Lizakowski	Joshua	Sophomore	BS-Computer Science	Krush, Joan
Loberg	Austin	Sophomore	BS-Computer Science	Krush, Joan
Lohse	Herbert	Sophomore	BS-Computer Science	Krush, Joan
Ludwig	Hunter	Sophomore	BS-Computer Science	Krush, Joan
Mattila	Ian	Sophomore	BS-Computer Science	Krush, Joan
McLain	Justin	Sophomore	BS-Computer Science	Krush, Joan
Merfeld	Kyle	Sophomore	BS-Computer Science	Krush, Joan
Meyer	Brandon	Sophomore	BS-Computer Science	Krush, Joan
Mohan	Benjamin	Sophomore	BS-Computer Science	Krush, Joan
Moua	Yuepheng	Sophomore	BS-Computer Science	Krush, Joan
Nolting	Jesse	Sophomore	BS-Computer Science	Krush, Joan
Nyland	Hannah	Sophomore	BS-Computer Science	Krush, Joan
Olason	Tanner	Sophomore	BS-Computer Science	Krush, Joan
Olson	Jaden	Sophomore	BS-Computer Science	Krush, Joan
Olson	Matthew	Sophomore	BS-Computer Science	Krush, Joan
Olson	Mitchell	Sophomore	BS-Computer Science	Krush, Joan
Punel	Lakpa	Sophomore	BS-Computer Science	Krush, Joan
Rauta	Victor	Sophomore	BS-Computer Science	Krush, Joan
Reagan	Benjamin	Sophomore	BS-Computer Science	Krush, Joan
Riebel	Nicholas	Sophomore	BS-Computer Science	Krush, Joan
Roberts	Drew	Sophomore	BS-Computer Science	Krush, Joan
Roll	Dalton	Sophomore	BS-Computer Science	Krush, Joan
Rothstein	Jordan	Sophomore	BS-Computer Science	Krush, Joan
Saari	Alexis	Sophomore	BS-Computer Science	Krush, Joan
Saxena	Ayushi	Sophomore	BS-Computer Science	Krush, Joan
Schmidt	Taylor	Sophomore	BS-Computer Science	Krush, Joan
Silewski	Brian	Sophomore	BS-Computer Science	Krush, Joan
Silverberg	Samuel	Sophomore	BS-Computer Science	Krush, Joan
Sinha	Aditya	Sophomore	BS-Computer Science	Krush, Joan
Stephens	Christopher	Sophomore	BS-Computer Science	Krush, Joan
Swanson	Reilly	Sophomore	BS-Computer Science	Krush, Joan

Tadman	Austin	Sophomore	BS-Computer Science	Krush, Joan
Terwilliger	Alec	Sophomore	BS-Computer Science	Krush, Joan
Vethanayagam	Sangeeth	Sophomore	BS-Computer Science	Krush, Joan
Vick	Andrew	Sophomore	BS-Computer Science	Krush, Joan
Welder	Taylor	Sophomore	BS-Computer Science	Krush, Joan
Weller	Benjamin	Sophomore	BS-Computer Science	Krush, Joan
Wells	Peter	Sophomore	BS-Computer Science	Krush, Joan
Willert	Joseph	Sophomore	BS-Computer Science	Krush, Joan
Young	Jaden	Sophomore	BS-Computer Science	Krush, Joan
Zickermann	Joshua	Sophomore	BS-Computer Science	Krush, Joan
Zinke	Andrew	Sophomore	BS-Computer Science	Krush, Joan
Alexander	Devin	Junior	BS-Computer Science	Krush, Joan
Ames	Thomas	Junior	BS-Computer Science	Krush, Joan
Bedard	Kelsey	Junior	BS-Computer Science	Krush, Joan
Bhardwaj	Akshay	Junior	BS-Computer Science	Krush, Joan
Brandt	Walker	Junior	BS-Computer Science	Krush, Joan
Braun	Eric	Junior	BS-Computer Science	Krush, Joan
Chastain	Brett	Junior	BS-Computer Science	Krush, Joan
Christensen	Travis	Junior	BS-Computer Science	Krush, Joan
Covington	Leighton	Junior	BS-Computer Science	Krush, Joan
Dahl	Michael	Junior	BS-Computer Science	Krush, Joan
Davis	Barrett	Junior	BS-Computer Science	Krush, Joan
Duppong	Austin	Junior	BS-Computer Science	Krush, Joan
Feist	Bryant	Junior	BS-Computer Science	Krush, Joan
Fevold	Matthew	Junior	BS-Computer Science	Krush, Joan
Ford	Marshall	Junior	BS-Computer Science	Krush, Joan
Geray	Colin	Junior	BS-Computer Science	Krush, Joan
Goetze	Jordan	Junior	BS-Computer Science	Krush, Joan
Hapip	Benjamin	Junior	BS-Computer Science	Krush, Joan
Hart	Adam	Junior	BS-Computer Science	Krush, Joan
Henderson	James	Junior	BS-Computer Science	Krush, Joan
Hepokoski	Timothy	Junior	BS-Computer Science	Krush, Joan
Joraanstad	Levi	Junior	BS-Computer Science	Krush, Joan
Kainz	Cole	Junior	BS-Computer Science	Krush, Joan
Kautz	Clint	Junior	BS-Computer Science	Krush, Joan
Kistler	Thomas	Junior	BS-Computer Science	Krush, Joan
Kunze	Jesse	Junior	BS-Computer Science	Krush, Joan
Larsen	Caleb	Junior	BS-Computer Science	Krush, Joan
LaVanier	Erik	Junior	BS-Computer Science	Krush, Joan
Leatherman	Garrett	Junior	BS-Computer Science	Krush, Joan
Li	Yuqian	Junior	BS-Computer Science	Krush, Joan
Lohse	Herbert	Junior	BS-Computer Science	Krush, Joan
Losinski	Tyler	Junior	BS-Computer Science	Krush, Joan

Luchsinger	Bradley	Junior	BS-Computer Science	Krush, Joan
McKeever	Marshall	Junior	BS-Computer Science	Krush, Joan
McKenney	Weston	Junior	BS-Computer Science	Krush, Joan
McLain	Justin	Junior	BS-Computer Science	Krush, Joan
Merfeld	Kyle	Junior	BS-Computer Science	Krush, Joan
Meyer	Brandon	Junior	BS-Computer Science	Krush, Joan
Mitchell	Joseph	Junior	BS-Computer Science	Krush, Joan
Moe	Grant	Junior	BS-Computer Science	Krush, Joan
Nicolai	Isaiah	Junior	BS-Computer Science	Krush, Joan
Olson	David	Junior	BS-Computer Science	Krush, Joan
Osborne	Joseph	Junior	BS-Computer Science	Krush, Joan
Otto	Tanner	Junior	BS-Computer Science	Krush, Joan
Punel	Lakpa	Junior	BS-Computer Science	Krush, Joan
Saxena	Ayushi	Junior	BS-Computer Science	Krush, Joan
Schmitt	Micah	Junior	BS-Computer Science	Krush, Joan
Skindelen	Nicholas	Junior	BS-Computer Science	Krush, Joan
Swam	Mark	Junior	BS-Computer Science	Krush, Joan
Swanson	Reilly	Junior	BS-Computer Science	Krush, Joan
Tang	Chengyao	Junior	BS-Computer Science	Krush, Joan
Teotia	Anuj	Junior	BS-Computer Science	Krush, Joan
Walker	Jonathan	Junior	BS-Computer Science	Krush, Joan
Wallgren-Mindermann	Joshua	Junior	BS-Computer Science	Krush, Joan
Warne	Sean	Junior	BS-Computer Science	Krush, Joan
Williams	Eric	Junior	BS-Computer Science	Krush, Joan
Wirrenga	Jaden	Junior	BS-Computer Science	Krush, Joan
Wright	Mason	Junior	BS-Computer Science	Krush, Joan
Yeung	Stephen	Junior	BS-Computer Science	Krush, Joan
Young	Jaden	Junior	BS-Computer Science	Krush, Joan
Ames	Thomas	Senior	BS-Computer Science	Krush, Joan
Bierbaum	Gabriela	Senior	BS-Computer Science	Krush, Joan
Buchholz	Alex	Senior	BS-Computer Science	Krush, Joan
Christensen	Travis	Senior	BS-Computer Science	Krush, Joan
Christiansen	Amanda	Senior	BS-Computer Science	Krush, Joan
Feist	Bryant	Senior	BS-Computer Science	Krush, Joan
Flanagan	Sean	Senior	BS-Computer Science	Krush, Joan
Gregoire	Kevin	Senior	BS-Computer Science	Krush, Joan
Henderson	James	Senior	BS-Computer Science	Krush, Joan
Huynh	Mi	Senior	BS-Computer Science	Krush, Joan
Jacobs	Jestin	Senior	BS-Computer Science	Krush, Joan
Kainz	Cole	Senior	BS-Computer Science	Krush, Joan
Kautz	Clint	Senior	BS-Computer Science	Krush, Joan
Kezer	Firat	Senior	BS-Computer Science	Krush, Joan

Kloster	Michael	Senior	BS-Computer Science	Krush, Joan
Larsen	Caleb	Senior	BS-Computer Science	Krush, Joan
Larson	Steve	Senior	BS-Computer Science	Krush, Joan
Lauer	Ryan	Senior	BS-Computer Science	Krush, Joan
LaVanier	Erik	Senior	BS-Computer Science	Krush, Joan
Leet	Matthew	Senior	BS-Computer Science	Krush, Joan
McKeever	Marshall	Senior	BS-Computer Science	Krush, Joan
Nicolai	Isaiah	Senior	BS-Computer Science	Krush, Joan
Osborne	Joseph	Senior	BS-Computer Science	Krush, Joan
Paulson	Alexander	Senior	BS-Computer Science	Krush, Joan
Rockenback	Noah	Senior	BS-Computer Science	Krush, Joan
Tang	Chengyao	Senior	BS-Computer Science	Krush, Joan
Thomas	Adam	Senior	BS-Computer Science	Krush, Joan
Walker	Jonathan	Senior	BS-Computer Science	Krush, Joan
Warne	Sean	Senior	BS-Computer Science	Krush, Joan
Wirrenga	Jaden	Senior	BS-Computer Science	Krush, Joan
Bowser	Bryce	Junior	BS-Computer Science	Latimer,Joseph
Hanson	Jared	Junior	BS-Computer Science	Latimer,Joseph
Kollodge	Mitchell	Junior	BS-Computer Science	Latimer,Joseph
Stein	Lucas	Junior	BS-Computer Science	Latimer,Joseph
Ullmann	Troy	Junior	BS-Computer Science	Latimer,Joseph
Wallestad	Nathan	Junior	BS-Computer Science	Latimer,Joseph
Ellingson	Nicholas	Senior	BS-Computer Science	Latimer,Joseph
Kurtz	Jordan	Senior	BS-Computer Science	Latimer,Joseph
Lambert	Austin	Senior	BS-Computer Science	Latimer,Joseph
Sharma	Surya	Senior	BS-Computer Science	Latimer,Joseph
Stein	Lucas	Senior	BS-Computer Science	Latimer,Joseph
Stowman	Nathan	Senior	BS-Computer Science	Latimer,Joseph
Thul	Jamie	Senior	BS-Computer Science	Latimer,Joseph
Trom	Christopher	Senior	BS-Computer Science	Latimer,Joseph
Wallestad	Nathan	Senior	BS-Computer Science	Latimer,Joseph
Drees	Cody	Junior	BA-Computer Science	Li,Juan
Mecheri Sneha Subash	FNU	Sophomore	BS-Computer Science	Li,Juan
Scherling	Aaron	Sophomore	BS-Computer Science	Li,Juan
Tjosaas	Tyler	Sophomore	BS-Computer Science	Li,Juan
Weishair	Jordan	Sophomore	BS-Computer Science	Li,Juan
Aakhus	Blake	Junior	BS-Computer Science	Li,Juan
Christianson	Grant	Junior	BS-Computer Science	Li,Juan
Knecht	Brett	Junior	BS-Computer Science	Li,Juan
Kyereme	Victoria	Junior	BS-Computer Science	Li,Juan

Mecheri Sneha Subash	FNU	Junior	BS-Computer Science	Li,Juan
Scherling	Aaron	Junior	BS-Computer Science	Li,Juan
Slaby	Franklin	Junior	BS-Computer Science	Li,Juan
Sullivan	Amanda	Junior	BS-Computer Science	Li,Juan
Tjosaas	Tyler	Junior	BS-Computer Science	Li,Juan
Canton	Erik	Senior	BS-Computer Science	Li,Juan
Heinle	Dennis	Senior	BS-Computer Science	Li,Juan
Job	Alex	Senior	BS-Computer Science	Li,Juan
Kostelecky	Marc	Senior	BS-Computer Science	Li,Juan
Kyereme	Victoria	Senior	BS-Computer Science	Li,Juan
Moses	Joseph	Senior	BS-Computer Science	Li,Juan
Pohl	Joshua	Senior	BS-Computer Science	Li,Juan
Rhen	Erick	Senior	BS-Computer Science	Li,Juan
Schumacher	Michael	Senior	BS-Computer Science	Li,Juan
Slaby	Franklin	Senior	BS-Computer Science	Li,Juan
Emamian	Peyman	Graduate	MS-Computer Science	Li,Juan
Fernando	Warnakulasuriya Chandima	Graduate	MS-Computer Science	Li,Juan
Ginjala	Anisha	Graduate	MS-Computer Science	Li,Juan
Karnati	Yasvant Krishna	Graduate	MS-Computer Science	Li,Juan
Lu	Zhou	Graduate	MS-Computer Science	Li,Juan
Muttineni	Divya	Graduate	MS-Computer Science	Li,Juan
Myneedi	Anusha	Graduate	MS-Computer Science	Li,Juan
Narasareddy Gari	Mourya Reddy	Graduate	MS-Computer Science	Li,Juan
Narra	Sravan	Graduate	MS-Computer Science	Li,Juan
Roodaki	Maryam	Graduate	MS-Computer Science	Li,Juan
Lu	Yang	Graduate	MS-Software Engineering	Li,Juan
Zaman	Nazia	Graduate	PHD-Computer Science	Li,Juan
Cramer	Sara	Sophomore	BA-Computer Science	Ludwig,Simone
Heilman	Nick	Senior	BA-Computer Science	Ludwig,Simone
Calvillo	Anthony	Junior	BS-Computer Science	Ludwig,Simone
Philippy	Joshua	Junior	BS-Computer Science	Ludwig,Simone
Raboin	Stephen	Junior	BS-Computer Science	Ludwig,Simone
Rubbert	Tyler	Junior	BS-Computer Science	Ludwig,Simone
Abrams	Joshua	Senior	BS-Computer Science	Ludwig,Simone
Ginkel	Jaron	Senior	BS-Computer Science	Ludwig,Simone
Hansen	Colton	Senior	BS-Computer Science	Ludwig,Simone
McGrath	Max	Senior	BS-Computer Science	Ludwig,Simone
Michal	Stephanie	Senior	BS-Computer Science	Ludwig,Simone
Palmer	Kyle	Senior	BS-Computer Science	Ludwig,Simone
Pansch	Jordan	Senior	BS-Computer Science	Ludwig,Simone

Thomas	Kevin	Senior	BS-Computer Science	Ludwig,Simone
Bauer	Kevin	Graduate	MS-Computer Science	Ludwig,Simone
Bhattacharyya	Krittika	Graduate	MS-Computer Science	Ludwig,Simone
Dumpala	Chaitanya	Graduate	MS-Computer Science	Ludwig,Simone
Gagganapalli	Srikanth	Graduate	MS-Computer Science	Ludwig,Simone
Gaur	Himanshu	Graduate	MS-Computer Science	Ludwig,Simone
Ghosh	Priyanka	Graduate	MS-Computer Science	Ludwig,Simone
Manne	Priyanka	Graduate	MS-Computer Science	Ludwig,Simone
Mattaparthi	Sowjanya	Graduate	MS-Computer Science	Ludwig,Simone
Moparthi	Rashmi	Graduate	MS-Computer Science	Ludwig,Simone
Nuthalapati	Aditya	Graduate	MS-Computer Science	Ludwig,Simone
Xia	Gongyi	Graduate	MS-Computer Science	Ludwig,Simone
Kamel	Ashraf	Graduate	MS-Software Engineering	Ludwig,Simone
Kasam	Shashi Kanth	Graduate	MS-Software Engineering	Ludwig,Simone
Dawar	Deepak	Graduate	PHD-Computer Science	Ludwig,Simone
Pattanayak	Sayantica	Graduate	PHD-Computer Science	Ludwig,Simone
Xia	Gongyi	Graduate	PHD-Computer Science	Ludwig,Simone
Ladwig	Andrew	Graduate	CERT-Software Engineering	Magel,Kenneth
Mucha	Nithisha	Graduate	MS-Computer Science	Magel,Kenneth
Reddy	Vijay Reddy	Graduate	MS-Computer Science	Magel,Kenneth
Singh	Rajat	Graduate	MS-Computer Science	Magel,Kenneth
Agrawal	Shilpi	Graduate	MSE-Software Engineering	Magel,Kenneth
Anderson	Colin	Graduate	MSE-Software Engineering	Magel,Kenneth
Bajwa	Muhammad Asad	Graduate	MSE-Software Engineering	Magel,Kenneth
Barber	Michael	Graduate	MSE-Software Engineering	Magel,Kenneth
Batton	Ryan	Graduate	MSE-Software Engineering	Magel,Kenneth
Bischoff	Nancy	Graduate	MSE-Software Engineering	Magel,Kenneth
Blair	Cody	Graduate	MSE-Software Engineering	Magel,Kenneth
Buveneswaran	Nivas	Graduate	MSE-Software Engineering	Magel,Kenneth
Carlton	Bobby	Graduate	MSE-Software Engineering	Magel,Kenneth
Chagonda	Arthur	Graduate	MSE-Software Engineering	Magel,Kenneth
Debevec	Christopher	Graduate	MSE-Software Engineering	Magel,Kenneth
Finn	Caitlin	Graduate	MSE-Software	Magel,Kenneth

			Engineering	
Garcia	Agatha	Graduate	MSE-Software Engineering	Magel,Kenneth
Heiser	Carolyn	Graduate	MSE-Software Engineering	Magel,Kenneth
Higashi	Javin	Graduate	MSE-Software Engineering	Magel,Kenneth
Jaisi	Joel	Graduate	MSE-Software Engineering	Magel,Kenneth
Kivam	Joseph	Graduate	MSE-Software Engineering	Magel,Kenneth
Komarovsky	Svetlana	Graduate	MSE-Software Engineering	Magel,Kenneth
Marks	Dominic	Graduate	MSE-Software Engineering	Magel,Kenneth
McIntyre	Scott	Graduate	MSE-Software Engineering	Magel,Kenneth
Miller	Rebecca	Graduate	MSE-Software Engineering	Magel,Kenneth
Moudry	John	Graduate	MSE-Software Engineering	Magel,Kenneth
Nimmo	Eric	Graduate	MSE-Software Engineering	Magel,Kenneth
Pietrowski	Todd	Graduate	MSE-Software Engineering	Magel,Kenneth
Ricks	Harrington	Graduate	MSE-Software Engineering	Magel,Kenneth
Sahajwani	Zubeen	Graduate	MSE-Software Engineering	Magel,Kenneth
Selimovic	Migdad	Graduate	MSE-Software Engineering	Magel,Kenneth
Settisubramanian	Yagnesh	Graduate	MSE-Software Engineering	Magel,Kenneth
Shanahan	Forest	Graduate	MSE-Software Engineering	Magel,Kenneth
Shipowick	Adam	Graduate	MSE-Software Engineering	Magel,Kenneth
Snell	Christopher	Graduate	MSE-Software Engineering	Magel,Kenneth
Srivastava	Arpit	Graduate	MSE-Software Engineering	Magel,Kenneth
Summey	Ryan	Graduate	MSE-Software Engineering	Magel,Kenneth
Symmonds	Mark	Graduate	MSE-Software Engineering	Magel,Kenneth
Tieu	Phong	Graduate	MSE-Software Engineering	Magel,Kenneth
Tuladhar	Sumit	Graduate	MSE-Software Engineering	Magel,Kenneth

Vasilyev	Andrey	Graduate	MSE-Software Engineering	Magel,Kenneth
Yericherla	Hebsibha	Graduate	MSE-Software Engineering	Magel,Kenneth
Zhang	Hankuan	Graduate	MSE-Software Engineering	Magel,Kenneth
Gandhi	Harshada	Graduate	MS-Software Engineering	Magel,Kenneth
Hossain	Naqib	Graduate	MS-Software Engineering	Magel,Kenneth
Kasam	Shashi Kanth	Graduate	MS-Software Engineering	Magel,Kenneth
Manjunath	Kavitha	Graduate	MS-Software Engineering	Magel,Kenneth
Qiu	Chengxiang	Graduate	MS-Software Engineering	Magel,Kenneth
Sharma	Aditi	Graduate	MS-Software Engineering	Magel,Kenneth
Sharma	Rahul	Graduate	MS-Software Engineering	Magel,Kenneth
Simley	Judi	Graduate	MS-Software Engineering	Magel,Kenneth
Syed	Ahmed	Graduate	MS-Software Engineering	Magel,Kenneth
Alruwaythi	Maryam	Graduate	PHD-Software Engineering	Magel,Kenneth
Altahlawi	Amro	Graduate	PHD-Software Engineering	Magel,Kenneth
Asgar	Talukdar	Graduate	PHD-Software Engineering	Magel,Kenneth
Attaallah	Abdulaziz	Graduate	PHD-Software Engineering	Magel,Kenneth
Barakat	Rahaf	Graduate	PHD-Software Engineering	Magel,Kenneth
Brown	Tamaike	Graduate	PHD-Software Engineering	Magel,Kenneth
Haug	Frank	Graduate	PHD-Software Engineering	Magel,Kenneth
Williams	Robert	Graduate	PHD-Software Engineering	Magel,Kenneth
Panora	Juan	Junior	BA-Computer Science	Myronovych,Oksana
Alean	Angela	Senior	BA-Computer Science	Myronovych,Oksana
Perkins	Lacy	Senior	BA-Computer Science	Myronovych,Oksana
Borowicz	Joseph	Junior	BS-Computer Science	Myronovych,Oksana
Johar	Amandeep	Junior	BS-Computer Science	Myronovych,Oksana
Johnson	Tyler	Junior	BS-Computer Science	Myronovych,Oksana
Raatz	Nathan	Junior	BS-Computer Science	Myronovych,Oksana
Weigel	Austin	Junior	BS-Computer Science	Myronovych,Oksana
Clayton	Rachelle	Senior	BS-Computer Science	Myronovych,Oksana
Dee	Dillon	Senior	BS-Computer Science	Myronovych,Oksana
Johnson	Tyler	Senior	BS-Computer Science	Myronovych,Oksana
Mason	Robert	Senior	BS-Computer Science	Myronovych,Oksana
Mische	Carlin	Senior	BS-Computer Science	Myronovych,Oksana
Raatz	Nathan	Senior	BS-Computer Science	Myronovych,Oksana

Simon	James	Senior	BS-Computer Science	Myronovych,Oksana
Amuge	Betty	Graduate	MS-Computer Science	Nygard,Kendall E
Bu	Honggang	Graduate	MS-Computer Science	Nygard,Kendall E
Dinesh Singh	FNU	Graduate	MS-Computer Science	Nygard,Kendall E
Li	Hanzhe	Graduate	MS-Computer Science	Nygard,Kendall E
Nekkanti	Om Prakash	Graduate	MS-Computer Science	Nygard,Kendall E
Sen	Sourya	Graduate	MS-Computer Science	Nygard,Kendall E
Shevkar	Rupali	Graduate	MS-Computer Science	Nygard,Kendall E
Soni	Gaurav	Graduate	MS-Computer Science	Nygard,Kendall E
Wang	Di	Graduate	MS-Computer Science	Nygard,Kendall E
Jahan	Israt	Graduate	MSE-Software Engineering	Nygard,Kendall E
Arora	Amit	Graduate	MS-Software Engineering	Nygard,Kendall E
Chhina	Ramneet	Graduate	MS-Software Engineering	Nygard,Kendall E
Govindan Kamalanathan	Janani	Graduate	MS-Software Engineering	Nygard,Kendall E
Lu	Yang	Graduate	MS-Software Engineering	Nygard,Kendall E
Mehta	Puneet	Graduate	MS-Software Engineering	Nygard,Kendall E
Nuthulapati	Sri Lalitha	Graduate	MS-Software Engineering	Nygard,Kendall E
Rashid	Rumana	Graduate	MS-Software Engineering	Nygard,Kendall E
Sijapati	Cady	Graduate	MS-Software Engineering	Nygard,Kendall E
Soni	Pratima	Graduate	MS-Software Engineering	Nygard,Kendall E
Stone	Jason	Graduate	MS-Software Engineering	Nygard,Kendall E
Tripathi	Snnahill	Graduate	MS-Software Engineering	Nygard,Kendall E
Chowdhury	Md	Graduate	PHD-Computer Science	Nygard,Kendall E
Dass	Pranav	Graduate	PHD-Computer Science	Nygard,Kendall E
Ganti	Annaji	Graduate	PHD-Computer Science	Nygard,Kendall E
Kambhampaty	Krishna	Graduate	PHD-Computer Science	Nygard,Kendall E
Konar	Prosenjit	Graduate	PHD-Computer Science	Nygard,Kendall E
Loree	Paul	Graduate	PHD-Computer Science	Nygard,Kendall E
Bugalwi	Ahmed	Graduate	PHD-Software Engineering	Nygard,Kendall E
Huang	Zheng	Graduate	PHD-Software Engineering	Nygard,Kendall E
Lampl	Damian	Graduate	PHD-Software Engineering	Nygard,Kendall E
Taoh	Kpenabari	Sophomore	BA-Computer Science	Pavicic,Mark J
Olson	Gabriel	Sophomore	BS-Computer Science	Pavicic,Mark J
Clark	Benjamin	Senior	BS-Computer Science	Perrizo,William K
Lee	Jason	Senior	BS-Computer Science	Perrizo,William K
Ntaate	Allan	Senior	BS-Computer Science	Perrizo,William K

Upton	Alexander	Senior	BS-Computer Science	Perrizo,William K
Mesich	Bryan	Graduate	MS-Computer Science	Perrizo,William K
Chatterjee	Arijit	Graduate	PHD-Computer Science	Perrizo,William K
Hossain	Mohammad	Graduate	PHD-Computer Science	Perrizo,William K
Singh	Maninder	Graduate	PHD-Computer Science	Perrizo,William K
Hage	Damon	Senior	BS-Computer Science	Radermacher,Alex D
Larson	Adam	Sophomore	BA-Computer Science	Salem,Saeed
Bohl	Tyler	Senior	BA-Computer Science	Salem,Saeed
Olsen	Samuel	Senior	BA-Computer Science	Salem,Saeed
Sailer	Andrew	Senior	BA-Computer Science	Salem,Saeed
Engelbrecht	Brian	Sophomore	BS-Computer Science	Salem,Saeed
Gellerman	Ethan	Junior	BS-Computer Science	Salem,Saeed
MacDonald	Aric	Junior	BS-Computer Science	Salem,Saeed
Moody	Clay	Junior	BS-Computer Science	Salem,Saeed
Ahmed	Ibrahim	Senior	BS-Computer Science	Salem,Saeed
Brewer	Adam	Senior	BS-Computer Science	Salem,Saeed
Corcoran	James	Senior	BS-Computer Science	Salem,Saeed
Dobler	Donovan	Senior	BS-Computer Science	Salem,Saeed
He	Zhuoran	Senior	BS-Computer Science	Salem,Saeed
Hiedeman	Katie	Senior	BS-Computer Science	Salem,Saeed
Joshi	Adit	Senior	BS-Computer Science	Salem,Saeed
MacDonald	Aric	Senior	BS-Computer Science	Salem,Saeed
Mayer	Samuel	Senior	BS-Computer Science	Salem,Saeed
Priestley	Trevor	Senior	BS-Computer Science	Salem,Saeed
Riley	Kelan	Senior	BS-Computer Science	Salem,Saeed
Roble	Nasar	Senior	BS-Computer Science	Salem,Saeed
Sheldon	Carl	Senior	BS-Computer Science	Salem,Saeed
Shi	Tongxin	Senior	BS-Computer Science	Salem,Saeed
Thomas	Michael	Senior	BS-Computer Science	Salem,Saeed
Welker	Michael	Senior	BS-Computer Science	Salem,Saeed
Dawar	Priyanka	Graduate	MS-Computer Science	Salem,Saeed
Durgapathi	Yashwanth Goud	Graduate	MS-Computer Science	Salem,Saeed
Kolte	Deepak	Graduate	MS-Computer Science	Salem,Saeed
Qormosh	Bassam	Graduate	MS-Computer Science	Salem,Saeed
Seo	San Ha	Graduate	MS-Computer Science	Salem,Saeed
Tortikar	Pratik	Graduate	MS-Software Engineering	Salem,Saeed
Goparaju	Aditya	Graduate	PHD-Computer Science	Salem,Saeed
Frovarp	Richard	Graduate	MS-Computer Science	Slator,Brian
Peruri	Alekya	Graduate	MS-Computer Science	Slator,Brian
Patel	Parita	Graduate	MSE-Software	Slator,Brian

			Engineering	
Borchert	Otto	Graduate	PHD-Computer Science	Slator,Brian
Murphy	Quinn	Sophomore	BS-Computer Science	Smith,Scott Christopher
Gordon	Madeline	Senior	BA-Computer Science	Ubhaya,Vasant A
Miller	Samuel	Senior	BA-Computer Science	Ubhaya,Vasant A
Sampson	Dustin	Sophomore	BS-Computer Science	Ubhaya,Vasant A
Evanson	Derek	Junior	BS-Computer Science	Ubhaya,Vasant A
Friedt	Jamie	Junior	BS-Computer Science	Ubhaya,Vasant A
Stein	Adam	Junior	BS-Computer Science	Ubhaya,Vasant A
Close	Chad	Senior	BS-Computer Science	Ubhaya,Vasant A
Ebersohl	Brandon	Senior	BS-Computer Science	Ubhaya,Vasant A
Fritz	Joseph	Senior	BS-Computer Science	Ubhaya,Vasant A
Horner	Levi	Senior	BS-Computer Science	Ubhaya,Vasant A
Kakoty	Priyangshu	Senior	BS-Computer Science	Ubhaya,Vasant A
Lundgren	Alexander	Senior	BS-Computer Science	Ubhaya,Vasant A
Singh	Ravindra	Senior	BS-Computer Science	Ubhaya,Vasant A
Weninger	Scott	Senior	BS-Computer Science	Ubhaya,Vasant A
Woodruff	Joshua	Senior	BS-Computer Science	Ubhaya,Vasant A
Cook	Jason	Junior	BA-Computer Science	Walia,Gursimran
Minar	Nicholas	Senior	BA-Computer Science	Walia,Gursimran
Schock	Travis	Freshman	BS-Computer Science	Walia,Gursimran
Fenton	Demitrius	Sophomore	BS-Computer Science	Walia,Gursimran
Bigelow	Christopher	Junior	BS-Computer Science	Walia,Gursimran
Dahl	Christopher	Junior	BS-Computer Science	Walia,Gursimran
Falcon	Jordan	Junior	BS-Computer Science	Walia,Gursimran
Kuntz	Everett	Junior	BS-Computer Science	Walia,Gursimran
Yao	Kai	Junior	BS-Computer Science	Walia,Gursimran
Anderson	Daniel	Senior	BS-Computer Science	Walia,Gursimran
Bartholomew	Joshua	Senior	BS-Computer Science	Walia,Gursimran
Christiansen	Jordan	Senior	BS-Computer Science	Walia,Gursimran
Dahl	Christopher	Senior	BS-Computer Science	Walia,Gursimran
Dirks	Adam	Senior	BS-Computer Science	Walia,Gursimran
Falcon	Jordan	Senior	BS-Computer Science	Walia,Gursimran
Hasse	Christopher	Senior	BS-Computer Science	Walia,Gursimran
Malz	Justin	Senior	BS-Computer Science	Walia,Gursimran
Morgan	John	Senior	BS-Computer Science	Walia,Gursimran
Rothstein	Justin	Senior	BS-Computer Science	Walia,Gursimran
Singh	Nikhil	Senior	BS-Computer Science	Walia,Gursimran
Chamarajanagar	Vathsalyamayi	Graduate	CERT-Software	Walia,Gursimran

			Engineering	
Lu	Zhou	Graduate	MS-Computer Science	Walia,Gursimran
Amer	Wafaa	Graduate	MSE-Software Engineering	Walia,Gursimran
Amer	Wafaa	Graduate	MSE-Software Engineering	Walia,Gursimran
Bigelow	Rob	Graduate	MSE-Software Engineering	Walia,Gursimran
Brown	Rance	Graduate	MSE-Software Engineering	Walia,Gursimran
Cuervo	Libardo	Graduate	MSE-Software Engineering	Walia,Gursimran
Day	Honora	Graduate	MSE-Software Engineering	Walia,Gursimran
Donaldson	Ian	Graduate	MSE-Software Engineering	Walia,Gursimran
Liu	Liang Hua	Graduate	MSE-Software Engineering	Walia,Gursimran
Nazma	Monzuma	Graduate	MSE-Software Engineering	Walia,Gursimran
Patterson	Dale	Graduate	MSE-Software Engineering	Walia,Gursimran
Sayward	Thomas	Graduate	MSE-Software Engineering	Walia,Gursimran
Swedenburg	Jacob	Graduate	MSE-Software Engineering	Walia,Gursimran
Chang	Feng	Graduate	MS-Software Engineering	Walia,Gursimran
Deosi	Navneet	Graduate	MS-Software Engineering	Walia,Gursimran
Guthi	Sai Anusha	Graduate	MS-Software Engineering	Walia,Gursimran
Hegde	Shishir	Graduate	MS-Software Engineering	Walia,Gursimran
Jan	Bonnie	Graduate	MS-Software Engineering	Walia,Gursimran
Manjunath	Kavitha	Graduate	MS-Software Engineering	Walia,Gursimran
Singh	Abhinav	Graduate	MS-Software Engineering	Walia,Gursimran
Singh	Ashish	Graduate	MS-Software Engineering	Walia,Gursimran
Subedi	Ishan	Graduate	MS-Software Engineering	Walia,Gursimran
Yang	Weikang	Graduate	MS-Software Engineering	Walia,Gursimran
Narasareddy Gari	Mourya Reddy	Graduate	PHD-Computer Science	Walia,Gursimran
Singh	Maninder	Graduate	PHD-Computer Science	Walia,Gursimran
Agrawal	Tushar	Graduate	PHD-Software Engineering	Walia,Gursimran
Alanazi	Abdulaziz	Graduate	PHD-Software Engineering	Walia,Gursimran
Algarni	Asaad	Graduate	PHD-Software Engineering	Walia,Gursimran
Anu	Vaibhav	Graduate	PHD-Software Engineering	Walia,Gursimran
Goswami	Anurag	Graduate	PHD-Software	Walia,Gursimran

			Engineering	
Henson	Michael	Graduate	PHD-Software Engineering	Walia,Gursimran
Radermacher	Alex	Graduate	PHD-Software Engineering	Walia,Gursimran
Tomer	Avijeet	Graduate	PHD-Software Engineering	Walia,Gursimran
Malmskog	Heather	Senior	BA-Computer Science	Yan,Changhui
Savidge	Samuel	Senior	BA-Computer Science	Yan,Changhui
Skibinski	Deovandski	Senior	BA-Computer Science	Yan,Changhui
Dasari	Sarvani	Sophomore	BS-Computer Science	Yan,Changhui
Braima	Christian	Junior	BS-Computer Science	Yan,Changhui
Curott	Cullen	Junior	BS-Computer Science	Yan,Changhui
Molnar	Carl	Junior	BS-Computer Science	Yan,Changhui
Pollman	Jaron	Junior	BS-Computer Science	Yan,Changhui
Schrader	Buster	Junior	BS-Computer Science	Yan,Changhui
Ali	Daud	Senior	BS-Computer Science	Yan,Changhui
Birkholz	Nicole	Senior	BS-Computer Science	Yan,Changhui
Braima	Christian	Senior	BS-Computer Science	Yan,Changhui
Chaturvedi	Akshay	Senior	BS-Computer Science	Yan,Changhui
Randall	Erica	Senior	BS-Computer Science	Yan,Changhui
Spanier	Nathan	Senior	BS-Computer Science	Yan,Changhui
Summers	Kelly	Senior	BS-Computer Science	Yan,Changhui
Yan	Qianwen	Senior	BS-Computer Science	Yan,Changhui
Ma	Yongchao	Graduate	MS-Computer Science	Yan,Changhui
Tipparach	Santipab	Graduate	MS-Computer Science	Yan,Changhui
Sun	Liren	Graduate	MS-Software Engineering	Yan,Changhui
Du	Yang	Graduate	PHD-Computer Science	Yan,Changhui
Sun	Qing	Graduate	PHD-Computer Science	Yan,Changhui

Fall 2015 Graduate Research Assistants

Jamil Al-Sawwa	Charitha Hettiarachchi	San Ha Seo
Vaibhav Anu	Kishlay Jha	Qing Sun
MD Minhaz Chowdhury	MD Faisal Kabir	Liren Sun
Deepak Dawar	Shuhang Li	Eshita Zaman
Priyanka Dawar	Yongchao Ma	Mostofa Ahsan
Yang Du	Qormosh Bassam	Ping Hu
Chandima Fernando	Arighua Roy	Mourya Narasareddy
Noah Tekeste	Maninder Singh	Weikang Yang
Xiaoyi Zhou	Anurag Goswami	Anuj Shrestha

Fall 2015 Graduate Teaching Assistants

Tamaike Brown	Ashraf Kamel	
Deepak Dawar	Kavitha Manjunath	
Priyanka Dawar	Sourav Sarkar	
Chandima Fernando	Eshita Zaman	
Anurag Goswami	Nazia Zaman	

Fall 2015 Graduate Tutors

Mostofa Ahasan	Rachana Gurram	Amritha Raveendran
Feng Chang	Shashi Kasam	Maninder Singh
Amarender Depa	Zhangyu Meng	San Ha Seo
Vijaya Gottimukkula	Brent Mitchell	Anuj Shrestha
Rajesh Subramanian		

Fall 2015 Graders

Prabhakara Agasaladinni	Zhang Huang	Anusha Myneedi
Asaad Algarni	Bonnie Jan	Omprakash Nekkanti
Jamil Al-Sawwa	Madhumitha Kakarlapudi	Aditya Nuthalapati
Babitha Battu	Spoorthy Kanajal	Apeksah Shewalkar
Pranav Dass	Kishore Killada	Ashish Singh
Abram Haich	Ravi Kolte	Noah Tekesta
MD Shakhawat Hossain	Siddharth Krishan	Gongyi Xia
Ping Hu	Pranay Kumar	Weikang Yang

Spring 2016 Graduate Research Assistants

Mostofa Ahsan	Md Faisal Kabir	Liren Sun
Vaibhav Anu	Shuhang Li	Weikang Yang
Qormosh Bassam	Yongchao Ma	Noah Tekeste
Deepak Dawar	Mourya Narasareddy	Chandima Fernando
Priyanka Dawar	Rohit Pathak	San Ha Seo
Yang Du	Alekya Peruri	Maninder Singh
Charitha Hettiarachchi	Arighna Roy	Eshita Zaman
Ping Hu	Anuj Shrestha	Anurag Goswami
Kishlay Jha	Qing Sun	Xiaoyi Zhou

Spring 2016 Graduate Teaching Assistants

Anurag Goswami	Chandima Fernando	Brent Mitchell
Sourav Sarkar	Sayantica Pattanayak	Ashraf Kamel
Pranay Kumar	Eshita Zaman	
Naqib Hossain	MD Minhaz Chowdhury	
MD Abusager	Vijay Reddy Reddy	

Spring 2016 Tutors

Shashi Kasam	Ishan Subedi	Amarender Depa
Rachana Gurram	Maryam Alruwaythi	San Ha Seo
Jamil Al-sawwa	Santipab (Ruben) Tipparach	
MD Abusager	Zhangyu Meng	

Spring 2016 Graders

Prabhakara Agasaladinni	Ravi Kolte	Vijay Reddy Reddy
Maninder Singh	Abram Haich	Zheng Huang
Gongyi Xia	Tamaike Brown	Minhaz Chowdhury
MD Shakhawat Hossain	Deepika Nyavanandi	Weikang Yang
Ping Hu	Anusha Myneedi	Siddharth Krishan
Apeksha Shewalkar	Spoorthy Kanjal	Bala Venkata Killada
Amritha Raveendran		

**Summer II Schedule
2015**

<i>Course</i>	<i>Class Title</i>	<i>Instructor</i>	<i>Enrolled</i>	<i>Student Credit</i>
161	Computer Science II	Radermacher	29	4
736	Advanced Intelligent Systems	S. Ludwig	11	3
741	Algorithm Analysis	V. Ubhaya	3	3

**Fall Schedule
2015**

<i>Course</i>	<i>Class Title</i>	<i>Instructor</i>	<i>Enrolled</i>	<i>Student Credit</i>
114	Microcomputer Packages	Anurag Goswami	55	3
114	Microcomputer Packages	Sourav Sarkar	49	3
114	Microcomputer Packages	Deepak Dawar	56	3
114	Microcomputer Packages	Priyanka Dawar	55	3
114	Microcomputer Packages	Nazia Zaman	40	3
114	Microcomputer Packages	Nazia Zaman	40	3
114	Microcomputer Packages	Janet Fleming	53	3
116	Business Use of Computers	Ashraf Kamel	54	4
116	Business Use of Computers	K. Manjunath	56	4
116	Business Use of Computers	Eshita Zaman	55	4
116	Business Use of Computers	Ashraf Kamel	54	4
116	Business Use of Computers	Chandima Fernando	40	4
116	Business Use of Computers	Chandima Fernando	40	4
116	Business Use of Computers	Pratap Kotala	52	4
116	Business Use of Computers	Tamaika Brown	29	4
122	Programming in BASIC	O. Myronovych	40	3
122	Programming in BASIC	O. Myronovych	18	3
125	COBOL Programming	J. Fleming	5	3
159	Computer Sci. Problem Solving	J. Fleming	40	3
159	Computer Sci. Problem Solving	J. Fleming	37	3
159	Computer Sci. Problem Solving	J. Fleming	14	3
160	Computer Science I	A. Radermacher	45	4
160	Computer Science I	A. Radermacher	49	4
160	Computer Science I	A. Radermacher	47	4
160	Computer Science I	A. Radermacher	44	4
161	Computer Science II	J. Latimer	26	4
161	Computer Science II	J. Latimer	38	4
161	Computer Science II	J. Latimer	20	4
213	Modern Software Development	O. Myronovych	41	3
213	Modern Software Development	O. Myronovych	45	3
213	Modern Software Development	O. Myronovych	28	3
222	Discrete Mathematics	V. Ubhaya	60	3
222	Discrete Mathematics	M.Pavicic	18	3
227	Computing Fundamentals I	Pratap Kotala	27	3
277	Intro to UNIX	J. Latimer	20	3
312	Intro to Programing Languages	Wei Jin	17	3
366	Files/Database Systems	Anne Denton	42	3
372	Comparative Languages	Wei Jin	37	3
374	Computer Organization	Pratap Kotala	25	3
374	Computer Organization	Pratap Kotala	25	3
413	Principles of Software Engineering	Alex Radermacher	47	3

415	Networking & Parallel Comput	Jen Li	30	3
418	Simulations Models	Kendall Nygard	13	3
459	Foundations of Computer Network	Changhui Yan	38	3
469	Network Security	Greg Wettstein	12	3
474	Operating Systems	Jun Kong	40	3
474	Operating Systems	Mark Pavicic	30	3
479	Intro to Data Mining	Saeed Salem	23	3
488	Human Computer Interaction	Jun Kong	39	3
489	Social Implications of Comp	Kendall Nygard	89	3
618	Simulations Models	Kendall Nygard	3	3
659	Foundations of Computer Network	Changhui Yan	2	3
669	Network Security	Greg Wettstein	2	3
679	Intro to Data Mining	Saeed Salem	14	3
688	Human Computer Interaction	Jun Kong	3	3
689	Social Implications of Comp	Kendall Nygard	5	3
713	Software Engineering I	Ken Magel	40	3
713	Software Engineering I	Ken Magel	23	3
715	Software Requirements Defination and Analysis	Gursimran Walia	23	3
715	Software Requirements Defination and Analysis	Gursimran Walia	19	3
717	Software Construction	Mark Pavicic	19	3
717	Software Construction	Mark Pavicic	3	3
736	Advanced Intelligent Systems	Simone Ludwig	5	3
741	Algorithm Analysis	Vasant Ubhaya	20	3
765	Intro to Database Systems	William Perrizo	32	3
771	Topic/Software Projects I	Ken Magel	2	3
771	Topic/Software Projects I	Ken Magel	14	3
772	Topic/Software Projects II	Ken Magel	0	3
772	Topic/Software Projects II	Ken Magel	2	3
790	Seminar/Software Engineering	Ken Magel	7	3
790	Seminar/Applications of Network	Saeed Salem	6	3
790	Seminar/Data Mining Science	Anne Denton	1	3
790	Seminar/Intelligent Systems	Simone Ludwig	10	3
848	Empirical Software Engineering	Gursimran Walia	10	3
848	Empirical Software Engineering	Gursimran Walia	20	3
858	Bioinformatics Data Mining	Saeed Salem	5	3
797	Master Paper	Staff	51	1-3
798	Master Thesis	Staff	21	1-3
899	Doctoral Dissertation	Staff	28	1-15

***Spring Semester Schedule
2016***

<i>Course</i>	<i>Class Title</i>	<i>Instructor</i>	<i>Enrolled</i>	<i>Student Credit</i>
114	Microcomputer Packages	Anurag Goswami	55	3
114	Microcomputer Packages	Sourav Sarkar	56	3
114	Microcomputer Packages	Pranay Kumar	55	3
114	Microcomputer Packages	Pranay Kumar	55	3
114	Microcomputer Packages	Naqib Hossain	40	3
114	Microcomputer Packages	MD Abusager	40	3
114	Microcomputer Packages	Janet Fleming	60	3
116	Business Use of Computers	Chandima Fernando	55	4

116	Business Use of Computers	S. Pattanayak	55	4
116	Business Use of Computers	Eshita Zaman	55	4
116	Business Use of Computers	Minhaz Chowdhury	55	4
116	Business Use of Computers	Vijay Reddy	40	4
116	Business Use of Computers	Tamaika Brown	55	4
116	Business Use of Computers	Pratap Kotala	55	4
122	Programming in BASIC	Brent Mitchell	40	3
122	Programming in BASIC	Ashraf Kamel	25	3
159	Computer Sci. Problem Solving	J. Fleming	31	3
159	Computer Sci. Problem Solving	J. Fleming	24	3
159	Computer Sci. Problem Solving	J. Fleming	38	3
159	Computer Sci. Problem Solving	J. Fleming	24	3
160	Computer Science I	A. Radermacher	40	4
160	Computer Science I	A. Radermacher	40	4
160	Computer Science I	A. Radermacher	42	4
161	Computer Science II	J. Latimer	43	4
161	Computer Science II	J. Latimer	39	4
161	Computer Science II	J. Latimer	40	4
222	Discrete Mathematics	Vasant Ubhaya	76	3
228	Computing Fundamentals II	Pratap Kotala	28	3
313	Software Development for Games	Mark Pavicic	40	3
313	Software Development for Games	Mark Pavicic	18	3
313	Software Development for Games	Mark Pavicic	40	3
336	Theoretical Computer Science II	Gursimran Walia	41	3
345	Topics on Personal Computers	Brian Slator	32	3
371	Web Scripting Languages	O. Myronovych	47	3
372	Comparative Languages	O. Myronovych	25	3
372	Comparative Languages	O. Myronovych	36	3
374	Computer Organization	Pratap Kotala	41	3
415	Networking & Parallel Comput	Jen Li	40	3
426	Intro to Artificial Intelligence	Simone Ludwig	40	3
428	Computational Techniques for Environmental Sustainability	Anne Denton	10	3
445	Software Projects Capstone	Dean Knudson	73	3
467	Algorithm Analysis	Vasant Ubhaya	80	3
474	Operating Systems	Mark Pavicic	30	3
489	Social Implications of Comp	Kendall Nygard	6	3
628	Computational Techniques for Environmental Sustainability	Anne Denton	11	3
716	Software Design	Pratap Kotala	23	3
716	Software Design	Pratap Kotala	20	3
718	Software Testing and Debugging	O. Myronovych	20	3
718	Software Testing and Debugging	O. Myronovych	20	3
724	Survey of AI	J. Li	27	3
724	Survey of AI	J. Li	20	3
765	Intro to Database Systems	William Perrizo	19	3
765	Intro to Database Systems	William Perrizo	26	3
771	Topic/Software Projects I	Ken Magel	1	3
771	Topic/Software Projects I	Ken Magel	2	3
772	Topic/Software Projects II	Ken Magel	11	3
772	Topic/Software Projects II	Ken Magel	3	3
790	Seminar/Educational Media	Brian Slator	19	
790	Seminar/Software Engineering	Ken Magel	9	3
790	Seminar/Intelligent Systems	Kong/Li	10	3
790	Seminar/Parallel/Vertical Perfor	William Perrizo	5	3
790	Seminar/Image Processing	Simone Ludwig	6	3

845	Formal Methods of Soft Engin.	Mark Pavicic	10	
847	Software Complexity Metrics	Ken Magel	11	3
847	Software Complexity Metrics	Ken Magel	13	3
797	Master Paper	Staff	43	1-3
798	Master Thesis	Staff	16	1-3
899	Doctoral Dissertation	Staff	29	1-15

***Summer I Schedule
2016***

<i>Course</i>	<i>Class Title</i>	<i>Instructor</i>	<i>Enrolled</i>	<i>Student Credit</i>
114	Microcomputer Packages	Janet Fleming	40	3
116	Business Use of Computers	Pratap Kotala	33	4
161	Computer Science II	A. Radermacher	31	4
336	Theoretical Computer Science II	Gursimran Walia	16	3
372	Comparative Prog.Languages	Pratap Kotala	13	3
473	Foundations of Digital Enterprises	Pratap Kotala	12	3
488/688	Human Computer Interaction	Jun Kong	3/9	3
713	Software Eninegeering I	Kenneth Magel	2	3
714	Software Proj. Planning & Est.	Gursimran Walia	13	3
716	Software Design	Pratap Kotala	5	3
717	Software Construction	Pratap Kotala	8	3
718	Software Testing & Debugging	O. Myronovych	4	3
771	Topic/Software Project I	Kennth Magel	3	3
772	Topic/Software Project II	Kennth Magel	0	3
773	Foundations of Digital Enterprises	Kendall Nygard	20	3
774	Topics of Digital Enterprise	Kendall Nygard	9	3
846	Distributed Systems	Jen Li	10	3
797	Master Paper	Faculty	15	1-3
798	Master Thesis	Faculty	8	1-10
899	Doctorial Dissertation	Faculty	16	1-15

Masters Students: Computer Science

Agasaladinni Reddy	Prabhakara Reddy	Manne	Priyanka
Amuge	Betty	Mattaparthi	Sowjanya
Badu	Sadhana	Meng	Zhangyu
Battu	Babitha	Mesich	Bryan
Bauer	Kevin	Mitchell	Brent
Bhattacharyya	Krittika	Moparthi	Rashmi
Bouret	Megan	Mucha	Nithisha
Bu	Honggang	Muttineni	Divya
Dawar	Priyanka	Myneedi	Anusha
Depa	Amarender Reddy	Narasareddy Gari	Mourya Reddy
Dinesh Singh	FNU	Narra	Sravan
Dumpala	Chaitanya	Nekkanti	Om Prakash
Durgapathi	Yashwanth Goud	Nuthalapati	Aditya
Emamian	Peyman	Nyavanandi	Deepika
Fernando	Warnakulasuriya Chandima	Peruri	Alekya
Frovarp	Richard	Phadke	Swapna
Gagganapalli	Srikanth	Qormosh	Bassam
Gaur	Himanshu	Rajan	Prateek
Gautam	Nitendra	Raveendran	Amritha
Ghosh	Priyanka	Reddy	Vijay Reddy
Ginjala	Anisha	Roodaki	Maryam
Gottimukkula	Vijaya Chanderrao	Roy	Arighna
Gurram	Rachana	Sarkar	Sourav
Haich	Abram	Sen	Sourya
Hossain	Md Shakhawat	Seo	San Ha
Hu	Ping	Shevkar	Rupali
Jha	Kishlay	Shewalkar	Apeksha
Johnson	Joseph	Shrestha	Anuj
Kakarlapudi	Madhumitha	Singh	Rajat
Karnati	Yasvant Krishna	Soni	Gaurav
Killada	Bala Venkata Ram	Subramaniam	Rajesh
Kolte	Deepak	Tekeste	Noah
Kolte	Ravi	Tipparach	Santipab
Krishan	Siddharth	Vethanayagam	Suhanthan
Li	Hanzhe	Wang	Di
Li	Shuhang	Xia	Gongyi
Lu	Zhou	Xu	Xing
Ma	Yongchao	Zheng	Hailong
Mahabaleshwar	Mahesh		

SOFTWARE ENGINEERING MASTERS/MSE PROGRAM

CERT: Chamarajanagar, Vathsalyamayi

CERT: Ladwig, Andrew

Agrawal	Shilpi	Marks	Dominic
Amer	Wafaa	McIntyre	Scott
Anderson	Colin	Miller	Rebecca
Bajwa	Muhammad Asad	Moudry	John
Barber	Michael	Nazma	Monzuma
Batton	Ryan	Nimmo	Eric
Bigelow	Rob	Patel	Parita
Bischoff	Nancy	Patterson	Dale
Blair	Cody	Pietrowski	Todd
Brown	Rance	Ricks	Harrington
Buveneswaran	Nivas	Sahajwani	Zubeen
Carlton	Bobby	Sayward	Thomas
Chagonda	Arthur	Selimovic	Migdad
Cuervo	Libardo	Settisubramanian	Yagnesh
Day	Honora	Shanahan	Forest
Debevec	Christopher	Shipowick	Adam
Dennis	Noah	Snell	Christopher
Donaldson	Ian	Srivastava	Arpit
Finn	Caitlin	Summey	Ryan
Garcia	Agatha		
Heiser	Carolyn	Swedenburg	Jacob
Higashi	Javin	Symmonds	Mark
Intekhab	Ahmed	Taleb-Agha	Abdul-Rahman
Jahan	Israt	Tieu	Phong
Jaisi	Joel	Tuladhar	Sumit
Jones	Andrew	Vasilyev	Andrey
Kivam	Joseph	Vinta	Naveen
Komarovsky	Svetlana	Yericherla	Hebsibha
Liu	Liang-Hua	Zhang	Hankuan

SOFTWARE ENGINEERING MASTERS PROGRAM

Agarwal	Abhishek	Manjunath	Kavitha
Agarwal	Palak	Mao	Xiaoli
Arora	Amit	Mehta	Puneet
Bhurale	Lohit	Nuthulapati	Sri-Lalitha
Chang	Feng	Qiu	Chengxiang
Chhina	Ramneet	Rashid	Rumana
Christeson	Eric	Sharma	Rahul
Deosi	Navneet	Sijapati	Cady
Gandhi	Harshada	Simley	Judi
Govindan Kamalanathan	Janani	Singh	Abhinav
Guthi	Sai Anusha	Singh	Ashish
Harikrishnan	Deepthi	Soni	Pratima
Hegde	Shishir	Stone	Jason
Hossain	Naqib	Subedi	Ishan
Jan	Bonnie	Sun	Liren
Kamel	Ashraf	Syed	Ahmed
Kanajal Chandrakanth	Spoorthy	Tortikar	Pratik
Kasam	Shashi Kanth	Tripathi	Snnahill
Kumar	Pranay	Yang	Juechen
Limke	Jed	Yang	Weikang
Liu	Yang		

PhD STUDENTS: COMPUTER SCIENCE

Ahsan	Mostofa	Kambhampaty	Krishna
Al Sawwa	Jamil	Konar	Prosenjit
Borchert	Otto	Li	Shuhang
Bouret	Megan	Li	Xin
Chakravarthi	Satheesh	Loree	Paul
Chatterjee	Arijit	Narasareddy Gari	Mourya Reddy
Chitraranjan	Charith	Pattanayak	Sayantica
Chowdhury	Md	Roy	Arjun
Dass	Pranav	Singh	Maninder
Dawar	Deepak	Sun	Qing
Du	Yang	Sweet	Joshua
Ganti	Annaji	Xia	Gongyi
Goparaju	Aditya	Zaman	Eshita
Hossain	Mohammad	Zaman	Nazia
Kabir	MD Faisal		

PhD STUDENTS: SOFTWARE ENGINEERING

Abusaqer	Muhammad	Bugalwi	Ahmed
Agrawal	Tushar	Eda	Madhusudana
Alanazi	Abdulaziz	Goswami	Anurag
Algarni	Asaad	Haug	Frank
Alruwaythi	Maryam	Henson	Michael
Altahlawi	Amro	Hettiarachchi	Charitha
Anderson	Jeffrey	Huang	Zheng
Anu	Vaibhav	Lampl	Damian
Asgar	Talukdar	Radermacher	Alex
Attaallah	Abdulaziz	Tomer	Avijeet
Barakat	Rahaf	Williams	Robert
Brown	Tamaike		

Enrollment and FTE Data

STUDENT RATING OF INSTRUCTION RESULTS 2015-2016

FALL, 2015 and SPRING 2016

Questions	VG	G	IB	P	VP	OMI T	DEPARTMENT LEVEL Mean S.D. #R		
100 TO 200 LEVEL									
1. Your satisfaction with the instruction in this course.	37.1	40.5	16.5	3.7	1.9	0.3	4.048	0.975	2566
2. The instructor as a teacher.	40.2	39.3	14.5	4.2	1.3	0.3	4.112	0.959	2565
3. The ability of the instructor to communicate effectively	35.5	37.2	17.6	6.7	2.4	0.6	3.987	1.020	2560
4. The quality of this course	34.2	41.6	16.2	5.7	1.7	0.6	4.003	0.978	2562
5. The fairness of procedures for grading this course.	51.3	36.0	8.9	1.8	1.3	0.8	4.302	0.864	2559
6. Your understanding of the course content.	32.2	46.2	16.4	3.0	1.5	0.7	4.065	0.882	2557
Questions	SA	A	N	D	SD	OMI T	DEPARTMENT LEVEL Mean S.D. #R		
7. Instructor created an atmosphere conducive to learning.	36.7	43.7	15.2	3.4	0.8	0.2	4.136	0.892	2567
8. Instructor provided well-defined course objective.	39.0	44.2	12.4	3.5	0.6	0.3	4.128	0.936	2565
9. Instructor provided content/materials clear/organized	40.2	40.9	14.0	3.9	0.6	0.3	4.088	0.965	2564
10. I understood how grades were assigned in this course.	45.0	39.6	10.7	3.3	1.1	0.3	4.205	0.934	2566
11. I met/exceeded the course objectives for this course	36.2	45.0	15.6	1.9	0.8	0.5	4.158	0.801	2562
12. Instructor was available to assist students outside class	40.7	39.1	16.3	3.0	0.6	0.5	4.177	0.868	2562
13. Instructor provided feedback in a timely manner.	38.2	42.5	14.2	3.5	1.3	0.3	4.133	0.920	2567
14. Instructor provided relevant feedback that helped me learn	36.4	40.9	17.0	4.4	1.0	0.3	4.055	0.951	2563
15. Instructor set + maintained high standards for students	36.3	43.7	16.1	2.8	0.7	0.3	4.129	0.873	2564
16. Physical environment was conducive to learning	38.6	42.8	14.2	3.3	0.8	0.3	4.145	0.884	2564

Questions	VG	G	IB	P	VP	OMI T	DEPARTMENT LEVEL Mean S.D. #R		
300 TO 400 LEVEL									
1. Your satisfaction with the instruction in this course.	28.2	43.5	15.6	8.5	3.9	0.3	4.048	0.975	2566
2. The instructor as a teacher.	32.9	38.6	17.4	7.1	3.6	0.4	4.112	0.959	2565
3. The ability of the instructor to communicate effectively	28.0	40.0	19.8	8.1	3.7	0.4	3.987	1.020	2560
4. The quality of this course	28.0	39.4	21.0	7.9	3.6	0.3	4.003	0.978	2562
5. The fairness of procedures for grading this course.	39.8	40.7	13.2	4.1	2.0	0.3	4.302	0.864	2559
6. Your understanding of the course content.	26.7	47.1	18.3	5.1	2.2	0.6	4.065	0.882	2557

Questions	SA	A	N	D	SD	OMI T	DEPARTMENT LEVEL Mean S.D. #R		
7. Instructor created an atmosphere conducive to learning.	35.6	42.4	13.6	6.2	1.9	0.3	4.136	0.892	2567
8. Instructor provided well-defined course objective.	32.8	40.0	13.7	8.8	4.4	0.3	4.128	0.936	2565
9. Instructor provided content/materials clear/organized	30.1	39.1	16.9	8.9	4.8	0.1	4.088	0.965	2564
10. I understood how grades were assigned in this course.	38.6	40.2	11.2	5.2	4.7	0.1	4.205	0.934	2566
11. I met/exceeded the course objectives for this course	29.5	50.6	17.0	2.0	0.6	0.3	4.158	0.801	2562
12. Instructor was available to assist students outside class	35.8	41.9	18.3	2.3	1.4	0.3	4.177	0.868	2562
13. Instructor provided feedback in a timely manner.	34.1	43.8	15.1	3.7	3.2	0.1	4.133	0.920	2567
14. Instructor provided relevant feedback that helped me learn	29.5	42.4	17.9	6.2	3.3	0.6	4.055	0.951	2563
15. Instructor set + maintained high standards for students	33.2	45.1	15.6	3.6	2.4	0.1	4.129	0.873	2564
16. Physical environment was conducive to learning	33.5	45.7	12.7	5.8	1.9	0.3	4.145	0.884	2564

Questions	VG	G	IB	P	VP	OMI T	DEPARTMENT LEVEL Mean S.D. #R		
600 TO 700 LEVEL									
1. Your satisfaction with the instruction in this course.	57.9	32.4	5.3	1.8	2.6	0.0	4.048	0.975	2566
2. The instructor as a teacher.	63.5	27.9	5.6	1.5	1.5	0.0	4.112	0.959	2565
3. The ability of the instructor to communicate effectively	60.3	30.3	5.9	0.9	2.1	0.6	4.987	1.020	2560
4. The quality of this course	56.5	33.2	6.5	2.4	1.5	0.0	4.003	0.978	2562
5. The fairness of procedures for grading this course.	63.2	28.8	4.4	1.2	2.1	0.3	4.302	0.864	2559
6. Your understanding of the course content.	56.5	36.2	4.1	2.1	0.9	0.3	4.065	0.882	2557
Questions	SA	A	N	D	SD	OMI T	DEPARTMENT LEVEL Mean S.D. #R		
7. Instructor created an atmosphere conducive to learning.	58.2	32.6	4.1	2.4	2.4	0.3	4.136	0.892	2567
8. Instructor provided well-defined course objective.	62.4	27.9	5.6	1.8	1.8	0.6	4.128	0.936	2565
9. Instructor provided content/materials clear/organized	57.9	30.3	6.5	1.5	2.6	1.2	4.088	0.965	2564
10. I understood how grades were assigned in this course.	60.9	28.2	6.8	1.8	2.1	0.3	4.205	0.934	2566
11. I met/exceeded the course objectives for this course	56.5	32.1	9.1	0.3	1.5	0.6	4.158	0.801	2562
12. Instructor was available to assist students outside class	62.1	24.1	8.8	1.8	2.6	0.6	4.177	0.868	2562
13. Instructor provided feedback in a timely manner.	61.2	26.5	5.9	3.2	2.9	0.3	4.133	0.920	2567
14. Instructor provided relevant feedback that helped me learn	57.9	28.2	7.9	2.1	3.5	0.3	4.139	0.951	2563
15. Instructor set + maintained high standards for students	56.5	29.7	8.5	2.4	2.1	0.9	4.129	0.873	2564
16. Physical environment was conducive to learning	55.9	29.1	10.6	1.5	2.4	0.6	4.145	0.884	2564

**Internship Program
Fall 2015, Spring 2016, and Summer 2016**

Fall 2015

Computer Science

<u>Student Last Name</u>	<u>Employer</u>	<u>Job Type</u>	<u>Semester</u>
Bhattacharyya, Kritika	The Toro Company, Bloomington, MN	Full-time Internship	Fall 2015
Gagganapalli, Srikanth	eTek IT Services, Schaumburg, IL	Full-time Internship	Fall 2015
Ghosh, Priyanka	The Toro Company; Minneapolis, MN	Full-time Internship	Fall 2015
Li, Hanzhe	Baanyan Software Services, Inc; Edison, NJ	Full-time Internship	Fall 2015
Losinski, Tyler	Doosan Information & Communications America; Gwinner, ND	Full-time Internship	Fall 2015
Mattaparthi, Sowjanya	Leidholm Technologies; Fargo, ND	Part-time Internship	Fall 2015
Moparthi, Rashmi	BAVE Technologies Inc.; Austin, TX	Full-time Internship	Fall 2015
Muttineni, Divya	Unigo Inc.; IRVING, TX	Full-time Internship	Fall 2015
Narasareddy Gari, Mourya Reddy	NetScout Systems, Inc.; Boston, MA	Part-time Internship	Fall 2015
Peruri, Alekya	Open Access Technology Int'l, Inc. (OATI); Minneapolis, MN	Full-time Internship	Fall 2015
Reddy, Vijay Reddy	Open Access Technology Int'l, Inc. (OATI); Minneapolis, MN	Full-time Internship	Fall 2015
Sailer, Andrew	BPro Inc; Horace, ND	Full-time Internship	Fall 2015
Sharma, Surya	Appareo Systems, LLC; Fargo, ND	Part-time Internship	Fall 2015
Thronset, Andrew	Onsharp, Inc.; Fargo, ND	Full-time Internship	Fall 2015

Software Engineering

<u>Student Last Name</u>	<u>Employer</u>	<u>Job Type</u>	<u>Semester</u>
Arora, Amit	TSQ System; Irving, TX	Full-time Internship	Fall 2015
Govindan Kamalanathan, Janani	Sensiple, Woodbridge, NJ	Full-time Internship	Fall 2015
Nuthulapati, Sri Lalitha	The Toro Company; Minneapolis, MN	Full-time Internship	Fall 2015
Sharma, Aditi	Genius Minds LLC; Richfield, MN	Full-time Internship	Fall 2015
Tomer, Avijeet	Pearson VUE; Bloomington, MN	Full-time Internship	Fall 2015

SPRING 2016

Computer Science

<u>Student Last Name</u>	<u>Employer</u>	<u>Job Type</u>	<u>Semester</u>
Badu, Sadhana	Savvy Computer Solutions, Inc.; Palatine, IL	Part-time Internship	Spring 2016
Kuntz, Everett	Doosan Information & Communications America; Gwinner, ND, ND	Full-time Internship	Spring 2016
Lauer, Ryan	Emerson Process Management - Process Systems & Solutions; Shakopee, MN	Full-time Internship	Spring 2016
Li, Hanzhe	Baanyan Software Services, Inc; Edison, NJ	Full-time Internship	Spring 2016
Sharma, Surya	Appareo Systems, LLC; Fargo, ND	Part-time Internship	Spring 2016
Subramaniam, Rajesh	United Sugars Corporation; Moorhead, MN	Full-time Internship	Spring 2016
Thronset, Andrew	Onsharp, Inc.; Fargo, ND	Full-time Internship	Spring 2016
Zaman, Nazia	TrueIT; Fargo, ND	Full-time Internship	Spring 2016

Software Engineering

<u>Student Last Name</u>	<u>Employer</u>	<u>Job Type</u>	<u>Semester</u>
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Arora, Amit	TSQ System; Irving, TX	Full-time Internship	Spring 2016
Nuthalapati, Sri Lalitha	The Toro Company; Minneapolis, MN	Full-time Internship	Spring 2016
Sharma, Aditi	Genius Minds LLC; Richfield, MN	Full-time Internship	Spring 2016
Tomer, Avijeet	Pearson VUE; Bloomington, MN	Full-time Internship	Spring 2016

SUMMER 2016

Computer Science

<u>Student Last Name</u>	<u>Employer</u>	<u>Job Type</u>	<u>Semester</u>
Dawar, Priyanka	The Toro Company, Bloomington, MN	Full-time Internship	Summer 2016
Dirks, Adam	Securian Financial Group; St. Paul, MN	Full-time Internship	Summer 2016
Fagan, Kevin	Target Corporation – IT, Minneapolis, MN	Full-time Internship	Summer 2016
Happip, Benjamin	NISC (National Information Solutions Cooperative; Mandan, ND	Full-time Internship	Summer 2016
Kabir, Md Faisal	Boston Medical Center, Boston, MA	Part-time Internship	Summer 2016
Kakoty, Priyangshu	Blue Cross Blue Shield of ND, Fargo, ND	Full-time Internship	Summer 2016
Mecheri Subash, Sneha	Fast Enterprises LLC, Salt Lake City, UT	Full-time Internship	Summer 2016
Myneedi, Anusha	Blue Cross Blue Shield of ND, Fargo, ND	Full-time Internship	Summer 2016
Narra, Sravan Raghu Kumar	Fargo Engineering Inc; Fargo, ND	Full-time Internship	Summer 2016
Nuthalapati, Aditya	Upsher-Smith Laboratories, Maple Grove, MN	Full-time Internship	Summer 2016
Roy, Arighna	Cognitive Logics Inc.; Fremont, CA	Part-time Internship	Summer 2016
Stein, Lucas	Border States Electric Supply, Fargo, ND	Full-time Internship	Summer 2016

Software Engineering

<u>Student Last Name</u>	<u>Employer</u>	<u>Job Type</u>	<u>Semester</u>
Chang, Feng	Myriad Mobile, Fargo, ND	Full-time Internship	Summer 2016
Govindan Kamalanathan, Janani	Zulily; Seattle, WA	Full-time Internship	Summer 2016
Kumar, Pranay	Aditazz; Brisbane, CA	Full-time Internship	Summer 2016

**Fall 2015
4th Week Stats
From Registration
& Records Data**

Total Number of Students

609

M	F
513	96

Graduates Total 212

Software Engineering 114

MS 37
MSE 55
PhD 20
CERT 2

M	F
23	14
41	14
18	2
1	1

Computer Science 98

MS 75
PhD 23

M	F
51	24
21	2

Undergraduate Total 397

	BA	BS	Total
Freshman	0	114	114
Sophomore	3	79	82
Junior	6	86	92
Senior	14	95	109

Minor CS (not included
in any total line above)

83

M	F
106	8
72	10
88	4
92	17

Double or Second Majors

	Total	M	F
Math	3	2	1
Physics	6	6	0
Psych	1	0	1

**Spring 2016 –
4th Week
OFFICIAL**

Total Number of Students

563

M	F
478	85

Graduates Total

193

Software Engineering

107

MS	35
MSE	50
PhD	21
CERT	1

M	F
21	14
38	12
19	2
0	1

Computer Science

86

MS	61
PhD	25

M	F
44	17
21	4

Undergraduate Total

370

Double or Second Majors

	BA	BS	Total
Freshman	1	68	69
Sophomore	4	73	77
Junior	7	77	84
Senior	17	123	140
Minor (not included in any total listed above)			70

M	F
63	6
75	2
77	7
120	20
61	9

	M	F
Math	5	2
Physics	5	4
Psychology	0	0
Non-Degree	1	0
TOTAL	11	6

Computer Science Department Enrollment Data

AY	Enrollment Fall 2015					Total UG	Total Grad	Total Degrees Fall 2015/Spring 2016		
	1st FR	2nd SO	3rd JR	4th SR				BS/BA	MS Comp Sc. Software	PhD Comp Sc. Software
2015-2016	114	82	92	109		397	212	37/20	20/16	4/2
2014 - 2015	79	89	76	100		344	199	28/7	11/11	1/3
2013 - 2014	85	77	79	80		321	201	41/4	25/18	5/3
2012 - 2013	82	65	54	95		296	209	76/7	30/5	4/0
2011 - 2012	75	47	59	95		276	217	47/5	30/5	4/0
2010-2011	68	63	55	74		267	210	38/2	26/6	0/1
2009 - 2010	71	55	48	79		253	197	38/2	20/6	1/1

Graduate Degrees Awarded, 2015-2016

SUMMER 2015

Last Name	First Name	Plan Description	Research Advisor
Al-Ahmad	Bilal	PHD – SE	Dr. Magel
Alroobi	Rami	PHD – CS	Dr. Salem
Chavan	Harshada	MS – CS	Dr. Denton
Cheng	Wen	PHD – CS	Dr. Yan
Chen	Min	PHD – SE	Dr. Ludwig
Hassan	Amro	MS – SE	Dr. Do
Kotala	Pratap	PHD – CS	Dr. Kong
Noel	Elizabeth	MS – SE	Dr. Denton
Param	Sowjanya	MS – CS	Dr. Nygard
Rindfleisch	Joel	MSE – SE	Dr. Magel
Sathiaseelan	Anuevelyn	MS – SE	Dr. Magel

FALL 2015

Last Name	First Name	Plan Description	Research Advisor
Agarwal	Abhishek	MS – SE	Dr. Denton
Barakat	Rahaf	PHD – SE	Dr. Magel
Battu	Babitha	MS – CS	Dr. Denton
Bauer	Kevin	MS – CS	Dr. Ludwig
Bhattacharyya	Krittika	MS – CS	Dr. Ludwig
Borchert	Otto	PHD – CS	Dr. Slator
Bouret	Megan	MS – CS	Dr. Denton
Chitraranjan	Charith	PHD – CS	Dr. Denton
Christeson	Eric	MS – SE	Dr. Denton
Dumpala	Chaitanya	MS – CS	Dr. Ludwig
Gagganapalli	Srikanth	MS – CS	Dr. Ludwig
Ginjala	Anisha	MS – CS	Dr. Li
Kambhampaty	Krishna	MS – CS	Dr. Nygard
Mattaparthi	Sowjanya	MS – CS	Dr. Ludwig
Phadke	Swapna	MS – CS	Dr. Jin
Rajan	Prateek	MS – CS	Dr. Jin
Sahajwani	Zubeen	MSE – SE	Dr. Magel
Sharma	Rahul	MS – SE	Dr. Magel

Shevkar	Rupali	MS – CS	Dr. Ludwig
Summey	Ryan	MSE – SE	Dr. Magel
Xu	Xing	MS – CS	Dr. Denton

SPRING 2016

Last Name	First Name	Plan Description	Research Advisor
Agrawal	Shilpi	MSE-SE	Dr. Magel
Anderson	Jeffrey	PHD-SE	Dr. Do
Chhina	Ramneet	MS-SE	Dr. Nygard
Finn	Caitlin	MSE-SE	Dr. Magel
Ghosh	Priyanka	MS-CS	Dr. Ludwig
Hossain	Mohammad	PHD-CS	Dr. Perrizo
Huang	Zheng	MS-SE	Dr. Kong
Jaisi	Joel	MSE-SE	Dr. Magel
Kasam	Shashi Kanth	MS-SE	Dr. Ludwig
Ladwig	Andrew	CERT-SWE	Dr. Magel
Limke	Jed	MS-SE	Dr. Kong
Lu	Zhou	MS-CS	Dr. Walia
Manne	Priyanka	MS-CS	Dr. Ludwig
McIntyre	Scott	MSE-SE	Dr. Magel
Miller	Rebecca	MSE- SE	Dr. Magel
Moparathi	Rashmi	MS-CS	Dr. Ludwig
Roodaki	Maryam	MS-CS	Dr. Li
Singh	Abhinav	MS-SE	Dr. Walia
Srivastava	Arpit	MSE-SE	Dr. Magel
Wang	Di	MS-CS	Dr. Kong
Xia	Gongyi	MS-CS	Dr. Ludwig
Zaman	Nazia	PHD-CS	Dr. Li

Undergraduate Degrees Awarded, 2015-2016

Last	First Name	Compl Term	Plan Description
Gordon	Madeline	Fall 2015	BA-Computer Science
Remke	Ryan	Fall 2015	BA-Computer Science
Arneson	Corey	Fall 2015	BS-Computer Science
Chaturvedi	Akshay	Fall 2015	BS-Computer Science
Ebersohl	Brandon	Fall 2015	BS-Computer Science
Horner	Levi	Fall 2015	BS-Computer Science
Joshi	Adit	Fall 2015	BS-Computer Science
Louwagie			
Gordon	Matthew	Fall 2015	BS-Computer Science
Palmer	Kyle	Fall 2015	BS-Computer Science
Schutz	John	Fall 2015	BS-Computer Science
Sheldon	Carl	Fall 2015	BS-Computer Science
Singh	Nikhil	Fall 2015	BS-Computer Science
Thomas	Kevin	Fall 2015	BS-Computer Science
Welker	Michael	Fall 2015	BS-Computer Science
Weninger	Scott	Fall 2015	BS-Computer Science
Yan	Qianwen	Fall 2015	BS-Computer Science
Abdelnour	Adil	Fall 2015	Minor Computer Science
Ayers	William	Fall 2015	Minor Computer Science
Birrenkott	Jordan	Fall 2015	Minor Computer Science
Dehler	Chad	Fall 2015	Minor Computer Science
Gao	He	Fall 2015	Minor Computer Science
Green	Jared	Fall 2015	Minor Computer Science
McGrath	Shane	Fall 2015	Minor Computer Science
Ripley	Jocelyn	Fall 2015	Minor Computer Science
Schwagler	Ryder	Fall 2015	Minor Computer Science
Sharma	Saurabh	Fall 2015	Minor Computer Science
Smith	Michael	Fall 2015	Minor Computer Science
Alean	Angela	Spring 2016	BA-Computer Science
Crowley	Maxwell	Spring 2016	BA-Computer Science
Heilman	Nick	Spring 2016	BA-Computer Science
Malmskog	Heather	Spring 2016	BA-Computer Science
Miller	Samuel	Spring 2016	BA-Computer Science
Schumacher	Colton	Spring 2016	BA-Computer Science
Abrams	Joshua	Spring 2016	BS-Computer Science
Bierbaum	Gabriela	Spring 2016	BS-Computer Science
Birkholz	Nicole	Spring 2016	BS-Computer Science

Buchholz	Alex	Spring 2016	BS-Computer Science
Canton	Erik	Spring 2016	BS-Computer Science
Clayton	Rachelle	Spring 2016	BS-Computer Science
Close	Chad	Spring 2016	BS-Computer Science
Dee	Dillon	Spring 2016	BS-Computer Science
Ellingson	Nicholas	Spring 2016	BS-Computer Science
Gregoire	Kevin	Spring 2016	BS-Computer Science
Gulbranson	Erin	Spring 2016	BS-Computer Science
Hansen	Colton	Spring 2016	BS-Computer Science
Jacobsen	Parker	Spring 2016	BS-Computer Science
Job	Alex	Spring 2016	BS-Computer Science
Kostelecky	Marc	Spring 2016	BS-Computer Science
Kurtz	Jordan	Spring 2016	BS-Computer Science
Lambert	Austin	Spring 2016	BS-Computer Science
Leet	Matthew	Spring 2016	BS-Computer Science
Lundgren	Alexander	Spring 2016	BS-Computer Science
MacDonald	Aric	Spring 2016	BS-Computer Science
Malz	Justin	Spring 2016	BS-Computer Science
Mayer	Samuel	Spring 2016	BS-Computer Science
McGrath	Max	Spring 2016	BS-Computer Science
Mische	Carlin	Spring 2016	BS-Computer Science
Ntaate	Allan	Spring 2016	BS-Computer Science
Paulson	Alexander	Spring 2016	BS-Computer Science
Pohl	Joshua	Spring 2016	BS-Computer Science
Rhen	Erick	Spring 2016	BS-Computer Science
Rothstein	Justin	Spring 2016	BS-Computer Science
Ryan	Kyle	Spring 2016	BS-Computer Science
Schumacher	Michael	Spring 2016	BS-Computer Science
Sharma	Surya	Spring 2016	BS-Computer Science
Thomas	Michael	Spring 2016	BS-Computer Science
Thul	Jamie	Spring 2016	BS-Computer Science
Willenburg	Amber	Spring 2016	BS-Computer Science
Anderson	Loren	Spring 2016	Minor Computer Science
Billstrom	Jacob	Spring 2016	Minor Computer Science
Chahal	Ravinder	Spring 2016	Minor Computer Science
Dai	Tianqi	Spring 2016	Minor Computer Science
Eikom	Paul	Spring 2016	Minor Computer Science
Feist	Mathew	Spring 2016	Minor Computer Science
Gellert	John	Spring 2016	Minor Computer Science
Hauf	Amanda	Spring 2016	Minor Computer Science
Hickey	Neil	Spring 2016	Minor Computer Science
Le	Son	Spring 2016	Minor Computer Science
Longfellow	Thomas	Spring 2016	Minor Computer Science
Moe	Andrew	Spring 2016	Minor Computer Science

Mugwaneza	Derrick	Spring 2016	Minor Computer Science
Nodland	Austin	Spring 2016	Minor Computer Science
Nodland	Jordan	Spring 2016	Minor Computer Science
Welle	Andrew	Spring 2016	Minor Computer Science
Minar	Nicholas	Summer 2016	BA-Computer Science
Boole	Adam	Summer 2016	BS-Computer Science
Christiansen	Amanda	Summer 2016	BS-Computer Science
Hasse	Christopher	Summer 2016	BS-Computer Science
Danielson	Andrew	Summer 2016	Minor Computer Science
Diedrick	Christopher	Summer 2016	Minor Computer Science
Wahl	Cody	Summer 2016	Minor Computer Science