Department of Computer Science and Engineering

2015 -2016 Annual Report

The Ohio State University
College of Engineering
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### NEWS & HIGHLIGHTS

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Our Mission

The Department of Computer Science and Engineering will impact the information age as a national leader in computing research and education. We will prepare computing graduates who are highly sought after, productive, and well-respected for their work, and who contribute to new developments in computing. We will give students in other disciplines an appropriate foundation in computing for their education, research, and experiences after graduation, consistent with computing’s increasingly fundamental role in society. In our areas of research focus, we will contribute key ideas to the development of the computing basis of the information age, advancing the state of the art for the benefit of society, the State of Ohio, and The Ohio State University. We will work with key academic partners within and outside of OSU, and with key industrial partners, in pursuit of our research and educational endeavors.
ARNAB NANDI RECIPIENT OF THE IEEE TECHNICAL COMMITTEE ON DATA ENGINEERING EARLY CAREER AWARD

Arnab Nandi, Assistant Professor with CSE, was awarded the 2016 IEEE TCDE Early Career Award for his contributions towards user focused data interaction: building data analysis, exploration and querying systems that allow highly interaction experiences for end users.

This award is based on an individual’s whole body of work in the first 5 years after the PhD. The award aims to promote current database researchers as they create their career. The award is given to an individual (if there is at least one qualified candidate) and consists of a plaque to the awardee. The recipient will receive the award at the annual IEEE ICDE Conference during the awards session.

GOLDWATER SCHOLARSHIP GOES TO ROSS VASKO

Ross Vasko, a junior honors student in computer science and engineering, has been named a 2016 Goldwater Scholar. The Goldwater is the most prestigious national award for undergraduate researchers in science, math, and engineering. Goldwater Scholars receive an award of $7,500 to cover the cost of tuition, fees, books, and room and board.

Ross is conducting research on flow field visualization with Drs. Rephael Wenger and Han-Wei Shen (Dept. of Computer Science & Engineering). His work with Drs. Wenger and Shen has been accepted for presentation at this summer’s EuroVis conference in the Netherlands. In addition, Ross spent the summer of 2015 conducting research with Dr. Franz Quint at the Karlsruhe University of Applied Sciences through the DAAD RISE program. Their work on real-time depth estimation of plenoptic cameras was published in Advances in Visual Computing. Ross has received the Shurtz Award for excellence in first-year mathematics, the College of Engineering Undergraduate Research Scholarship, and the Computer Science and Engineering Undergraduate Research Award. After receiving a PhD in computer science, he plans to teach and conduct research on geometric algorithms as a professor.

Ross was among four Ohio State undergraduates nominated for the Goldwater Scholarship. One other OSU student was named a Goldwater scholar and the two others received honorable mention. Nationally, 252 Goldwater scholarships were awarded to sophomores and juniors on the basis of academic merit from a field of over 1,150 mathematics, science, and engineering students who were nominated by colleges and universities nationwide. An additional 256 Honorable Mentions were also awarded. Each institution may only nominate four students for this award. Since the award’s inception in 1986, Ohio State has produced 52 Goldwater Scholars; forty-two of the university’s last forty-four nominees have been recognized as a scholar or honorable mention.

DISTINGUISHED PAPER AWARD AT OOPSLA AND FIRST PLACE IN ACM STUDENT RESEARCH COMPETITION

Ohio State CSE students and faculty received a Distinguished Paper Award at the ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA) in October. OOPSLA is one of the top publication venues in the area of programming languages and software systems.
The award paper is led by CSE PhD candidate Swarnendu Biswas and co-authored by CSE PhD candidate Minjia Zhang, CSE professor Mike Bond, and Carnegie Mellon University professor Brandon Lucia. Their paper, “Valor: Efficient, Software-Only Region Conflict Exceptions,” demonstrates a novel approach called Valor for improving the reliability of software systems, by ensuring strong behavioral guarantees for all program executions -- even executions that contain a notoriously challenging kind of software bug called a data race. Valor demonstrates how to provide strong execution guarantees even in today’s commodity systems, by using a software-only approach that is significantly more efficient than previously known techniques.

The Valor paper also received an OOPSLA Distinguished Artifact Award, honoring Swarnendu’s implementation of Valor for exceeding expectations by a committee of evaluators.

In addition, Swarnendu won first place in the graduate category of the 2016 ACM Student Research Competition (SRC). His winning entry, which was based on the Valor work before it was published, was selected from the winners of SRCs across all ACM conferences. Swarnendu and Mike were invited to the ACM Awards Banquet in June where Swarnendu received the award.

ANIL JAIN ELECTED TO NATIONAL ACADEMY OF ENGINEERING

Anil Jain, an University Distinguished Professor of Computer Science and Engineering at Michigan State University has been elected to the National Academy of Engineering (NAE). Election to the NAE is among an engineer’s highest honors. The academy honors those who have made outstanding contributions to engineering research, practice, or education, and to the pioneering of new and developing fields of technology, making major advancements in traditional fields of engineering or developing/implementing innovative approaches to engineering education. Anil Jain was selected for his contributions to the engineering and practice of biometrics.

Anil Jain received his MS in 1970 and Ph.D. in 1973 at Ohio State under the supervision of CSE Professor B. Chandrasekaran. He has a long list of awards for his academic accomplishments, including the Guggenheim Fellowship, Humboldt Research Award, Fulbright Scholarship, King-Sun Fu Prize, and W. Wallace McDowell Award. He a Fellow of ACM, IEEE and the National Academy of Inventors.

SADAYAPPAN EARNS LUTRON’S TEACHING AWARD

Dr. P Sadayappan was given The Ohio State University and Computer Science and Engineering’s fourth Joel and Ruth Spira Excellence in Teaching Award from Lutron. This honor is awarded annually to an individual faculty member who has excelled in teaching and inspiring students during the current academic year.

Professor Sadayappan (Saday) is a top and visible research leader and educator in the area of compilers for high-performance and parallel computing. The research he has carried out for over 30 years at Ohio State has made him a world renowned expert.
Throughout Professor Sadayappan’s time with Ohio State he has supervised 38 doctoral dissertations and 51 Master theses. He currently has more than 10 PhD students. Among those students are a distinguished professor and an Intel Fellow. The accomplishments of his students are a testament to the quality time he has spent supervising and mentoring over the years.

In addition to being recognized by Lutron with his Excellence in Teaching Award, Professor Sadayappan’s many recognitions include being a Fellow of the IEEE for his contributions in high performance computing and twice receiving the Outstanding Teaching Award from the CSE department.

18TH ANNUAL EXCELLENCE IN ENGINEERING AND ARCHITECTURE AWARD

Fifteen alumni from The Ohio State University College of Engineering and one community volunteer were honored during the 18th Annual Excellence in Engineering and Architecture Awards on October 9, 2015. Among the honorees was Deborah Shands an alumni from The Ohio State University College of Engineering.

Deborah Shands (MS ’88, PhD ’94, computer and information science) is a program director for the National Science Foundation’s Secure and Trustworthy Cyberspace program, which provides more than $70 million annually in funding for scientific research and education in the areas of security and privacy. She is on rotation from The Aerospace Corporation where she is a researcher and consulting security architect/engineer for space systems.

THE GRACE HOPPER CELEBRATION

The Grace Hopper Celebration of Women in Computing is the world’s largest conference for women in technology. Held October 2016 in Houston, Texas, the gathering brought together 12,000 women in the technology field, ranging from students studying computer science to professionals in the software industry.

Grace Hopper consisted of a three day long career fair, keynote speakers, seminars, workshops and plenty of networking and social activities. Some of the Keynote Speakers include— Sheryl Sandberg, COO of Facebook and founder Lean In, Susan Wojcicki, CEO of Youtube, Megan Smith, CTO of United State of America and many other female leaders in the technology fields. Many came back from the conference with multiple job and internship offers in hand but more importantly they came back with gained confidence and the inspiration to achieve dreams and ambitions.
This year Ohio State’s ACM-W chapter was able to send 12 girls to the conference with the support from the CSE department and the STEMM Gender Initiatives. The chapter felt that sending it’s members to the conference was one of the best ways to demonstrate the mission of supporting women in the computing field.

The department wants to provide women with the opportunity and confidence to succeed in the field – whether that means finding career opportunities through career fair and networking sessions or personal and professional development through the workshops, speakers and seminars.

**THIRD ANNUAL HACKATHON**

Hackathon 2015 took place the weekend of November 14th and challenged students to ‘build something awesome’. This 24-hour event, where student and faculty from all over the Midwest worked together to code and create software that are designed to addressed ongoing issues in society.

The more than 500 attended participants worked in groups and individually throughout the weekend. This is record attendance dwarfed the first and second OHI/O Hackathons in 2013 and 2014, according to Matt Faluotico, a fourth-year in computer science and engineering and an organizer of the event.

This year there were more than 100 teams working on coding and designing at this year’s Hackathon. Mentors were on hand to assist students when they ran into technical problems and 60 judges decided the top ten teams. Teams were judged on creativity, real world application and how technically challenging the project was. Each of the top ten teams received prizes from cash to Go-Pro cameras and Apple watches. Prizes were awarded by various sponsors of the event, such as the Wexner Medical Center, Transitional Data Analytics, Esri and Fuse.

The weekend ended with presentations, in front of the judges, from all the teams on what they created in the 24 hours. A top team had the idea related to using quick response codes to fill out hospital forms while another created a game similar to “Missile Command” to teach people about how the body fights off viruses and disease. The winning team created an app called Valet, an event-based parking system where users can rent parking spaces from other people.

This year’s event was organized by student and university groups such as Buckeye Hackers, Open Source Club, Electronics Club, ACM-W, Mobile App Developers Club, CWDG, Engineering Career Services, College of Engineering, Department of Computer Science & Engineering, and University Libraries.

The two faculty advisors for this annual event are CSE professor Arnab Nandi and Library professor Meris Mandermnach. CSE Chair Xiaodong Zhang gave an opening speech in the Hackathon 2015.
**World finals for CSE team Future_Gazer**

The team, Future_Gazer, formed by three CSE students, Te Zhang, Dingkang Wang and Jian Wang, competed representing The Ohio State University in the ACM - International Collegiate Programming Contest (ACM-ICPC) regional held in Cincinnati on Oct 20, 2015. The team ranked 2nd among all attending universities and ranked 4th among all attending teams in the contest. This is the best result that OSU has reached since 2008.

With the high ranking at the regional contest, team Future_Gazer was invited to compete at the ACM-ICPC world final from May 15-20, 2016 in Thailand. This is the first time a team from The Ohio State University was invited to compete in the world final. The team competed with 128 teams from all around the world and solved three problems in five hours. This level of problem completion by the team earned them an honorable mention. This is the first time a team from OSU has made it to the world final.

Future_Gazer is coached by Suyi Wang, advised by Prof. Yusu Wang and is supported by both the CSE department and the College of Engineering.

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**New Faculty**

Joining CSE in Fall 2016 will be Dr. Wei Xu. Dr. Xu is currently a postdoctoral fellow at University of Pennsylvania. She received her Ph.D. in computer science in 2014 from New York University and her research area is in natural language processing.

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**Promotions**

CSE Faculty becoming Associate Professors with tenure this Fall include Michael Bond, Nicoleta Roman, Kannan Srinivasan and Christopher Stewart. The CSE department would also like to recognize Rajiv Ramnath becoming a Clinical Professor.

Beginning in October 2016, there will be an addition to the rank of Full Professor: Dr. Eric Fosler-Lussier. Dr. Fosler-Lussier researches in the area of Linguistics and SBS-Biomedical Inforatics.
DEPT. OF COMPUTER SCIENCE & ENGINEERING
20TH ANNUAL AWARDS BANQUET

SCHOLARSHIPS

Central Ohio Chapter of Association of Computing Machinery (ACM)
  Maxwell Pettit

Crowe Horwath Scholarship
  Alexander Vavra

Ernest William Leggett, Jr. Scholarship The Leggett Family Award Endowment Fund
  Reece Holl
  Thomas Kiener

Harris Corporation Scholarship
  Mariamawit Alula

The O’Connell Family Award
  Gweneveir Stevens

Ten-Hwang Lai Scholarship
  Eric Soppi
  Xu Weng

Wael Bahaa-El-Din Scholarship
  Christian Diederich
  Adam Wheeler

Women in Computer Science Scholarship
  Marielle Edrienne Co

The Steve and Bridget Dritz Scholarship
  Dalton Flanagan

Raytheon Corporation
  Joshua Clark

Founders of the Computer Science and Engineering Department Scholarship Endowment Fund
  Saad Asim
  Frederick Gu
  Alec Haas
  Livia Stanley

Alumni Undergraduate Scholarships
  Bryan Arnold
  Matthew Bartholomew
  Bryon Foltz
  Samuel Kampen
  Frank Patrizio
  Oscar Rubio
  Sina Sabet
  David Soller
  Zachary Schroeder
  Caitlin Talbot
  Logan Wilson

Undergraduate Research Award
  Ross Vasko

DEPARTMENT AWARDS

B. Chandrasekaran & Sandra Mamrak Graduate Fellowship
  Donald Williamson

Mike Liu Graduate Fellowship Award
  Anys Bacha

Ten-Hwang Lai Fellowship Award
  Swarnendu Biswas

Wael Bahaa-El-Din Scholarship on Performance Analysis of Computer Systems
  Yuan Yuan

Eleanor Quinlan Graduate Teaching Award
  Arjun Bakshi

Outstanding Faculty Teaching Award
  Dr. Matthew Boggus
  Dr. Neelam Soundarajan

Outstanding Service Award
  Don Havard
(Left) Award recipients, Alec Haas and Livia Stanley are presented the Founders of the Computer Science and Engineering Department Scholarship Endowment Fund by Senior Lecturer Wayne Heym.

(Below) Arjun Bakshi receives the Eleanor Quinlan Award from Assistant Professor Yinqian Zhang.

(Above) Zachary Schroeder receives an Alumni Undergraduate Scholarship from Senior Lecturer Jeffrey Jones.

(Above) Advisory board member Dana Vantrease presents the Ten-Hwang Lai Scholarship to Eric Soppi and Xu Weng.

(Left) Don Havard receives the Outstanding Service Award from Xiaodong Zhang.
## Grant Funding 2015-2016

### New Grants Received in 2015–2016 Year

In order by name of CSE Investigator. CSE member names are in bold.

<table>
<thead>
<tr>
<th>CSE RESEARCHER</th>
<th>Funding Source</th>
<th>Grant Title</th>
<th>Term of Grant</th>
<th>Total Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>GAGAN AGRAWAL</td>
<td>RNET Technologies (Department of Energy subaward)</td>
<td>A MapReduce-like data-intensive processing framework for native data storage and formats</td>
<td>04/06/2015- 04/05/2016</td>
<td>$396,362</td>
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<tr>
<td></td>
<td>National Science Foundation</td>
<td>SHF: Small: Techniques and frameworks for exploiting recent SIMD architectural advances</td>
<td>07/01/2015- 06/30/2018</td>
<td>$449,999</td>
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<tr>
<td></td>
<td>National Science Foundation</td>
<td>II-New: Research infrastructure for energy-aware high performance computing (HPC) and data analytics on heterogeneous systems</td>
<td>07/01/2015- 06/30/2018</td>
<td>$898,685</td>
</tr>
<tr>
<td></td>
<td>Department of Energy</td>
<td>Whole-program adaptive error detection and mitigation</td>
<td>07/15/2015- 07/14/2018</td>
<td>$589,500</td>
</tr>
<tr>
<td></td>
<td>Pacific Northwest National Laboratory</td>
<td>Fault tolerant data mining</td>
<td>01/01/2016- 5/15/2016</td>
<td>$22,354</td>
</tr>
<tr>
<td>ANISH ARORA</td>
<td>World Wildlife Fund (Google Foundation)</td>
<td>Pilot study of poacher surveillance virtual fence</td>
<td>11/02/2015- 12/31/2016</td>
<td>$53,895</td>
</tr>
<tr>
<td>MIKHAIL BELKIN</td>
<td>National Science Foundation</td>
<td>EAGER: The exploration of geometric and non-geometric structure in data</td>
<td>09/01/2015- 02/28/2017</td>
<td>$150,000</td>
</tr>
<tr>
<td>ROGER CRAWFIS</td>
<td>Patient-Centered Outcomes Research Institute</td>
<td>Comparative effectiveness of a low-cost virtual reality gaming platform for rehabilitation of hemiparesis</td>
<td>11/01/2015 – 10/31/2018</td>
<td>$2,067,798</td>
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<tr>
<td>JAMES W. DAVIS</td>
<td>Battelle Memorial Institute</td>
<td>Context-based object classification</td>
<td>10/01/2015 - 03/31/2017</td>
<td>$84,700</td>
</tr>
<tr>
<td>TAMAL DEY</td>
<td>National Science Foundation</td>
<td>AF: Small: Analyzing complex data with a topological lens</td>
<td>09/01/2015– 08/31/2018</td>
<td>$399,999</td>
</tr>
</tbody>
</table>

**Astute Solutions**

Information retrieval techniques for social customer relationship management (CRM) systems
01/01/2016- 12/31/2016
Pl: Ramnath
Co-Pl: Agrawal
$45,141

**ANISH ARORA**

World Wildlife Fund (Google Foundation)
Pilot study of poacher surveillance virtual fence
11/02/2015- 12/31/2016
Pl: Arora
$53,895

**MIKHAIL BELKIN**

National Science Foundation
EAGER: The exploration of geometric and non-geometric structure in data
09/01/2015- 02/28/2017
Pl: Belkin
Co-Pls: Hamm, Yusu Wang
$150,000

**ROGER CRAWFIS**

Patient-Centered Outcomes Research Institute
Comparative effectiveness of a low-cost virtual reality gaming platform for rehabilitation of hemiparesis
11/01/2015 – 10/31/2018
Pl: Gauthier
Co-Pls: Crawfis, Borstad
$2,067,798

**JAMES W. DAVIS**

Battelle Memorial Institute
Context-based object classification
10/01/2015 - 03/31/2017
Pl: Davis
$84,700

**TAMAL DEY**

National Science Foundation
AF: Small: Analyzing complex data with a topological lens
09/01/2015– 08/31/2018
Pl: Yusu Wang
Co-Pl: Dey, Memoli
$399,999
National Science Foundation
Conference on Topology, Geometry, and Data Analysis at The Ohio State University
05/15/2016 – 05/14/2017
Pi: Kahle
Co-Pls: Memoli, Yusu Wang, Dey
$43,000

National Science Foundation
RTG: Algebraic Topology and Its Applications
06/01/2016- 05/31/2021
Pi: Kahle
Co-Pls: Memoli, Yusu Wang, Dey, M. Davis
$1,722,606

ERIC FOSLER-LUSSIER
Carney Labs (National Science Foundation sub-award)
STTR: Commercializing reading RACES
01/01/2016- 12/31/2016
Pi: Cartledge
Co-PI: Fosler-Lussier, Gardner
$134,733

FACUNDO MEMOLI
National Science Foundation
AF: Small: Analyzing complex data with a topological lens
09/01/2015– 08/31/2018
Pi: Yusu Wang
Co-Pl: Dey, Memoli
$399,999

National Science Foundation
Conference on Topology, Geometry, and Data Analysis at The Ohio State University
05/15/2016 – 05/14/2017
Pi: Kahle
Co-Pls: Memoli, Yusu Wang, Dey
$43,000

National Science Foundation
RTG: Algebraic Topology and Its Applications
06/01/2016- 05/31/2021
Pi: Kahle
Co-Pls: Memoli, Yusu Wang, Dey, M. Davis
$1,722,606

ARNAB NANDI
National Science Foundation
III: Small: Collaborative Research: Towards interactive data visualization management systems
09/01/2015- 08/31/2018
Pi: Nandi
$250,000

Gifts:
NetJets
$100,000

DK PANDA
National Science Foundation
II-New: Research infrastructure for energy-aware high performance computing (HPC) and data analytics on heterogeneous systems
07/01/2015- 06/30/2018
Pi: Agrawal
Co-PIs: Catalyurek, Panda, Sadayappan, Zhang
$898,685

National Science Foundation
SI2-SSI: Collaborative research: A software infrastructure for MPI performance engineering: Integrating MVAPICH and TAU via the MPI tools interface
09/01/2015 – 08/31/2019
Pi: Panda
$1,200,000

Engility Corporation (Department of Defense sub-award)
Coupling infi niBand hardware features and network-to-accelerator remote data memory access (RDMA) in the message passing interface (MPI)
09/01/2015 – 08/31/207
Pi: Panda
$450,000

Lawrence Livermore National Laboratory
Failure recovery models and interfaces in MVAPICH
08/18/2015 – 08/31/2016
Pi: Panda
$71,466
<table>
<thead>
<tr>
<th>Grant ID</th>
<th>Details</th>
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<tbody>
<tr>
<td>CSCS- Switzerland National Supercomputing Centre</td>
<td>Support and custom software development relating to the MVAPICH2 library, accelerators, MPI and contemporary networking 05/01/2016-04/30/2017 PI: Panda $77,500</td>
</tr>
<tr>
<td>Mellanox Technologies, Inc</td>
<td>Research on high performance and scalable MPI over InfiniBand. 04/01/2015-03/31/2016 PI: Panda $212,030</td>
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<tr>
<td>Gifts: NVIDIA Corporation</td>
<td>$182,600</td>
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<tr>
<td>Intel Corporation</td>
<td>$64,171</td>
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<tr>
<td>Mellanox Technologies Inc.</td>
<td>$5,000</td>
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<tr>
<td>SRINIVASAN PARTHASARATHY National Science Foundation</td>
<td>EAGER: Practical graph sparsification on GPUs 09/01/2015-08/31/2016 PI: Parthasarathy $111,168</td>
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<tr>
<td>National Science Foundation</td>
<td>Hazards SEES: Social and physical sensing enabled decision support for disaster management and response 08/15/2015-07/31/2019 PI: Parthasarathy Co-PIs: Kubatko, Liu $1,975,000</td>
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<tr>
<td>LOUIS-NOEL POUCHET</td>
<td>University of Illinois (Intel Corporation subaward) Customized polyhedral compilation for low-power high-level SoC synthesis 10/01/2015-09/30/2016 PI: Pouchet $39,863</td>
</tr>
<tr>
<td>NATIONAL SCIENCE FOUNDATION</td>
<td>TWC: Small: Collaborative: Cellular network services in peril: A perspective on control-plane and data-plane design 09/01/2015-08/31/2018 PI: Peng $238,437</td>
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<tr>
<td>LOUIS-NOEL POUCHET</td>
<td>University of Illinois (Intel Corporation subaward) Customized polyhedral compilation for low-power high-level SoC synthesis 10/01/2015-09/30/2016 PI: Pouchet $39,863</td>
</tr>
<tr>
<td>RAJIV RAMNATH Astute Solutions</td>
<td>Information retrieval techniques for social customer relationship management (CRM) systems 01/01/2016-12/31/2016 PI: Ramnath Co-PI: Agrawal $45,141</td>
</tr>
<tr>
<td>Nationwide Mutual Insurance Company</td>
<td>Integrating telematics data with other data sources to develop models of driver risk 01/01/2016-12/31/2016 PI: Ramnath $54,740</td>
</tr>
<tr>
<td>John E Fogarty International Center</td>
<td>Bridging the gap in e-capacity for global health research and training in eastern Africa 05/18/2015-04/31/2018 PI: Gebreyes Co-PIs: Ramnath, Bisesi, Gorgas, Menon, Schopis, Xiao $323,631</td>
</tr>
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<td>Chunyi Peng Delphos City Schools</td>
<td>Let’s BRAG (Bring Robust Achievement Gains) about our schools! 09/01/2015-06/30/2017 PI: Ramnath $15,000</td>
</tr>
<tr>
<td><strong>ALAN RITTER</strong></td>
<td><strong>NESS SHROFF</strong></td>
</tr>
<tr>
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<tr>
<td>National Science Foundation</td>
<td>National Science Foundation</td>
</tr>
<tr>
<td>CRI: III: Learning to extract events from knowledge base revisions</td>
<td>NeTS: Large: Collaborative Research: Practical Foundations for Networking with Many-Antenna Base Stations</td>
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<tr>
<td>09/01/2015 – 08/31/2017</td>
<td>07/01/2015- 06/30/2020</td>
</tr>
<tr>
<td>PI: Ritter</td>
<td>PI: Shroff</td>
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<td>$151,299</td>
<td>$600,000</td>
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<tr>
<th><strong>ATANAS ROUNTEV</strong></th>
<th><strong>Raytheon BBN Technologies (Defense Research Projects Agency subaward)</strong></th>
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<tbody>
<tr>
<td>National Science Foundation</td>
<td>Distributed, agile and robust control of an intrinsically resilient overlay network</td>
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<tr>
<td>SHF: Small: Control-flow and data-flow analysis of android software: Foundations and applications</td>
<td>07/01/2015- 06/30/2018</td>
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<tr>
<td>09/01/2015- 08/31/2018</td>
<td>PI: Shroff</td>
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<tr>
<td>PI: Rountev</td>
<td>$749,893</td>
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<td>$470,208</td>
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<table>
<thead>
<tr>
<th><strong>P. SADAYAPPAN</strong></th>
<th><strong>University of California Davis (Army Research Office subaward)</strong></th>
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</thead>
<tbody>
<tr>
<td>National Science Foundation</td>
<td>ARO: Advanced security games for cyber-physical systems</td>
</tr>
<tr>
<td>II-New: Research infrastructure for energy-aware high performance computing (HPC) and data analytics on heterogeneous systems</td>
<td>06/12/2015- 02/11/2017</td>
</tr>
<tr>
<td>07/01/2015- 06/30/2018</td>
<td>PI: Shroff</td>
</tr>
<tr>
<td>PI: Agrawal Co-PIs: Catalyurek, Panda, Sadayappan, Zhang</td>
<td>$300,000</td>
</tr>
<tr>
<td>$898,685</td>
<td></td>
</tr>
</tbody>
</table>

| RNET Technologies (Defense Research Projects Agency subaward) | |
| Enhancing the performance of high-productivity graph analytics frameworks | |
| 09/30/2015- 3/30/2016 | |
| PI: Sadayappan | |
| $30,000 | |

| Department of Energy | |
| Whole-program adaptive error detection and mitigation | |
| 07/15/2015 – 07/14/2018 | |
| PI: Sadayappan | |
| $589,500 | |

| RNET Technologies (Defense Research Projects Agency subaward) | |
| SBIR Phase 1: Performance portable framework for developing graph applications | |
| 05/14/2015 – 05/24/2016 | |
| PI: Sadayappan | |
| $45,000 | |

<table>
<thead>
<tr>
<th><strong>PRASUN SINHA</strong></th>
<th><strong>Gifts:</strong></th>
</tr>
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<tbody>
<tr>
<td>Toyota</td>
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<td>$60,000</td>
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<table>
<thead>
<tr>
<th><strong>KANNAN SRINIVASAN</strong></th>
<th><strong>Gifts:</strong></th>
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</thead>
<tbody>
<tr>
<td>National Science Foundation</td>
<td>Toyota</td>
</tr>
<tr>
<td>NeTS: Medium: Connecting the next billion: Rethinking wireless network design principles for the internet of everything</td>
<td>09/01/2015- 08/31/2019</td>
</tr>
<tr>
<td>PI: Koksal Co-PI: Srinivasan, Eryilmaz</td>
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<td>$799,582</td>
<td>$60,000</td>
</tr>
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</table>

| National Science Foundation | |
| EARS: Collaborative research: Full duplex for cognitive networks | |
| 01/01/2016 – 12/13/2018 | |
| PI: Srinivasan | |
| $200,000 | |

| Gifts: | |
| Toyota | |
| $60,000 | |
GRANT FUNDING 2015-2016

Chris Stewart
National Science Foundation
Functions for programming: Computer modeling in algebra
10/01/2015 – 09/30/2017
Pl: Perez
Co-Pls: Stewart, Malone
$1,201,385

Deliang Wang
Air Force Research Laboratory
Deep neural networks for speech separation with application to robust speech recognition
09/26/2015 – 09/25/2017
Pl: D. Wang
$149,998

Huamin Wang
National Science Foundation
CHS: Small: Printable partitioning of 3D models using level set methods
07/01/2015 – 08/31/2018
Pl: H. Wang
$407,882

Yang Wang
National Science Foundation
CRII: CSR: Efficient and available replication in large-scale datacenters
04/01/2016 – 03/31/2018
Pl: Yang Wang
$175,000

Yusu Wang
National Science Foundation
EAGER: The exploration of geometric and non-geometric structure in data
09/01/2015 – 02/28/2017
Pl: Belkin
Co-Pls: Hamm, Yusu Wang
$150,000

National Science Foundation
AF: Small: Analyzing complex data with a topological lens
09/01/2015 – 08/31/2018
Pl: Yusu Wang
Co-Pl: Dey, Memoli
$399,999

Xiaodong Zhang
Huawei
Concurrency control and key value stores
02/19/2016 – 02/01/2017
Pl: Zhang
$350,000

National Science Foundation
SHF: Medium: Collaborative research: Architectural and system support for building versatile memory systems
07/01/2015 – 06/30/2019
Pl: Zhang
$300,000

National Science Foundation
II-New: Research infrastructure for energy-aware high performance computing (HPC) and data analytics on heterogeneous systems
07/01/2015 – 06/30/2018
Pl: Agrawal
Co-Pls: Catalyurek, Panda, Sadayappan, Zhang
$898,685

Yinqian Zhang
National Science Foundation
CRII: SaTC: Rethinking side channel security on untrusted operating systems
05/01/2016 – 04/30/2017
Pl: Yinqian Zhang
$175,000
# GUEST SPEAKERS AND DISTINGUISHED GUEST LECTURERS

<table>
<thead>
<tr>
<th>Name</th>
<th>University/Institution</th>
<th>Topic</th>
</tr>
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<tbody>
<tr>
<td>Nina Amenta</td>
<td>University of California at Davis</td>
<td>Nearest-Neighbors on the GPU</td>
</tr>
<tr>
<td>Ioannis Caragiannis</td>
<td>University of Patras</td>
<td>Aggregating Partial Rankings with Applications to Peer Grading In Massive Open Online Courses</td>
</tr>
<tr>
<td>Dr. Emanuel Habets</td>
<td>University of Erlangen-Nuremberg</td>
<td>Recent Advances in Sound Acquisition for Spatial Audio Communication</td>
</tr>
<tr>
<td>Oliver Kennedy</td>
<td>University of Buffalo</td>
<td>PocketData: What’s in your pocket?</td>
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<tr>
<td>Dr. Yoonkyung Lee</td>
<td>The Ohio State University</td>
<td>A Statistical View of Ranking: Midway between Classification and Regression</td>
</tr>
<tr>
<td>Veljko Milutinovic</td>
<td>University of Belgrade</td>
<td>DataFlow SuperComputing for BigData Analytics</td>
</tr>
<tr>
<td>Dr. Werner Janse van Rensburg</td>
<td>Centre for High Performance Computing</td>
<td>Overview of the Centre for High Performance Computing (CHPC):South Africa’s National HPC Facility</td>
</tr>
<tr>
<td>Alessandro Rudi</td>
<td>Massachusetts Institute of Technology</td>
<td>Less is More: Nyström for Large Scale Learning</td>
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<tr>
<td>Dr. Charalampos Tsourakakis</td>
<td>Harvard University</td>
<td>Scalable Large Near-Clique Detection in Large-Scale Networks</td>
</tr>
<tr>
<td>Dong Yu</td>
<td>Microsoft Speech and Dialog Research Group</td>
<td>Deep Neural Network for Single-Channel Mixed Speech Recognition</td>
</tr>
<tr>
<td>Luke Zettlemoyer</td>
<td>University of Washington</td>
<td>Scalling Semantic Parsers to Large and Varied Domains</td>
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</tbody>
</table>
### Ten Year Statistical History - Teaching Overview

<table>
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<tr>
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<tbody>
<tr>
<td>Number of Faculty</td>
<td>32</td>
<td>33</td>
<td>35</td>
<td>35</td>
<td>35</td>
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<td>36</td>
<td>34</td>
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<tr>
<td>Course Enrollment/</td>
<td>3,187</td>
<td>3,238</td>
<td>3,386</td>
<td>3,702</td>
<td>3,943</td>
<td>4,075</td>
<td>4,609</td>
<td>5,737</td>
<td>6,508</td>
<td>6,932</td>
<td>7,626</td>
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<td>Autumn Qtr.</td>
<td>05-06</td>
<td>06-07</td>
<td>07-08</td>
<td>08-09</td>
<td>09-10</td>
<td>10-11</td>
<td>11-12</td>
<td>12-13*</td>
<td>13-14</td>
<td>14-15</td>
<td>15-16</td>
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<tr>
<td>Students Taught</td>
<td>10,844</td>
<td>10,641</td>
<td>11,185</td>
<td>12,209</td>
<td>12,689</td>
<td>13,744</td>
<td>14,523</td>
<td>12,457</td>
<td>14,463</td>
<td>15,484</td>
<td>16,697</td>
</tr>
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</table>

*The term/year of the conversion to semesters.

### The Graduate Program

With the economy in recovery and a job market demanding high-level computer skills, the Department of Computer Science and Engineering continues to grow even more. The 2015-2016 academic brought new records for the number of students enrolled and number of students taught. In particular, the Graduate Program saw new ten year heights in the records in enrollment, the number of students supported and number of Masters graduated, a return to the numbers seen prior to 2002.
Dr. Sameh Abdullah
KAUST, Saudia Arabia
Dr. Gagan Agrawal
Columbus, Ohio, USA
B.S., M.S. Minufuya University; M.S., The Ohio State University
Addressing Disk Bandwidth Wall and Fault-Tolerance for Data to Intensive Applications

Dr. Arindam Bhattacharya
Intel Corporation, Hillsboro, OR, USA
Dr. Rephael Wenger
Kolkata, India
Bachelor’s, West Bengal University of Technology; M.S., The Ohio State University
Gradient Dependent Reconstruction from Scalar Data

Dr. Bo Chen
Cisco Meraki, San Francisco, CA, USA
Dr. Kannan Srinivasan
Yangzhou, China
B. Engr., B.S., Shanghai Jaio Tong University
Taming Interference Through Collaboration in Network Systems

Dr. Linchuan Chen
Google, Mountain View, CA, USA
Dr. Gagan Agrawal
Lianyungang, China
Bachelor’s, Nanjing University; M.S., The Ohio State University
Accelerating Applications with Pattern-specific Optimizations on Accelerators and Coprocessors

Dr. Zhili Chen
Adobe, San Francisco, CA, USA
Dr. Huamin Wang
Chongqing, China
Bachelor’s, Tsinghua University; M.S., The Ohio State University
Towards real-time simulation of interactions among solids and fluids

Dr. Nan Deng
Google, Mountain View, CA, USA
Dr. Christopher Stewart
Beijing, China
Bachelor’s, Beijing University of Posts and Telecommunications; Bachelor’s, University of London
Systems Support for Carbon-Aware Cloud Applications

Dr. Venmugil Elango
NVIDIA, Redmond, WA, USA
Dr. P. Sadayappan
Chennai, India
B.E., Anna University; M.S., The Ohio State University
Techniques for Characterizing the Data Movement Complexity of Computations

Dr. SM Faisal
Google, San Francisco, CA, USA
Dr. Srinivasan Parthasarthy
Khulna, Bangladesh
B.S., Islamic University of Technology; M.S., The Ohio State University
Towards Energy Eddicient Data Mining & Graph Processing

Dr. David Fuhry
The Ohio State University, Columbus, OH, USA
Dr. Srinivasan Parthasarthy
West Farmington, OH, USA
B.S., M.S., Kent State University; M.S., The Ohio State University
PLASMA-HD: Probing the LAttice Structure and MAkeup of High-dimensional Data

Dr. Xiaoyin Ge
Google Inc., New York, NY, USA
Dr. Yusu Wang
Shanghai, China
B.S., Tongji University; M.S., The Ohio State University
Feature Aware Sampling and Reconstruction
DR. JEN HE
Amazon; Seattle, WA, USA
Dr. Anish Arora Kent, OH, USA
B.S., Tsinghua University; M.S., Michigan Technological University; M.S., The Ohio State University
Robust Mote-Scale Classification of Noisy Data via Machine Learning

DR. RAJKUMAR KETTIMUTHU
Argonne National Laboratory.; Argonne, IL, USA
Dr. Gagan Agrawal, Dr. P. Sadayappan Naperville, IL, USA
B. Engr., Anna University; M.S. The Ohio State University
Type- and Workload-Aware Scheduling of Large-Scale Wide-Area Data Transfers

DR. MARTIN KONG
Rice University; Houston TX, USA
Dr. Louis Noel Pouchet, Dr. P. Sadayappan Columbus, OH, USA
B.S., Pontifical Catholic University of Peru; M.S., The Ohio State University
Enabling Task Parallelism on the Hardware/Software Layers using the Polyhedral Model

DR. MEHMET KURT
Quantcast; San Francisco, CA, USA
Dr. Gagan Agrawal Columbus, OH, USA
B.S., Bilkent University; M.S., Bilkent University
Fault-tolerant Programming Models and Computing Frameworks

DR. MUCAHID KUTLU
Qatar University
Dr. Gagan Agrawal Columbus, OH, USA
B.S., Bilkent University; M.S., Bilkent University
Parallel Processing of Large Scale Genomic Data

DR. ZHIZHOU LI
Palo Alto Networks, Inc.; San Francisco, CA
Dr. Ten-Hwang Lai Columbus, OH, USA
B.Engr., M.S., Tsinghua University; M.S., The Ohio State University
Multi-Scheme Fully Homomorphic Encryptions And Its Application In Privacy Preserving Data Mining

DR. YI MA
Kasisto, Inc.; NewYork, USA
Dr. Eric Fosler-Lussier Guangzhou, China
B.S., University of Science and Technology of China; M.S., The Ohio State University
Learning for Spoken Dialog Systems with Discriminative Graphical Models

DR. DAVID MAUNG
Games That Move You, pbc.; Columbus OH, USA
Dr. Roger Crawfis Columbus, OH, USA
B.S. San Diego State University
Tile-based Method for Procedural Content Generation

DR. NAN MENG
Two-Sigma; New York, NY, USA
Dr. Raghu Machiraju, Dr. Kun Huang Qinhuangdao,China
B.S., Hebei University of Technology; M.S., The Ohio State University
Identifying Recurrent Patterns of Chromatin Modifications at Regulatory Regions on Genome

DR. NASERADDIN MOHTARI
Imagination Technologies, San Francisco, CA, USA
Dr. P. Sadayappan Birjand, Iran
B.S., Ferdowsi University of Mashhad; M.S., University of Tehran; M.S., The Ohio State University
Performance Optimization of Memory-Bound Programs on Data Parallel Accelerators

DR. QICHAO QUE
Facebook; Menlo Park, CA, USA
Dr. Mikhail Belkin Hangzhou, China
B.S., Zhejiang University; M.S., The Ohio State University
Integral Equations in Machine Learning Problems
**DR. SATYAJEET RAJE**
National Library of Medicine; Bethesda, MD, USA  
Dr. Jayashree Ramanathan, Dr. Gagan Agrawal  
Pune, India  
B.E., University of Pune; M.S. The Ohio State University  
ResearchIQ: An End-To-End Semantic Knowledge Platform for Resource Discovery in Biomedical Research

**DR. RENJI GEORGE THOMAS**
Intel Corp.; Portland, OR, USA  
Dr. Mircea-Radu Teodorescu  
Trivandrum, India  
B.Engr., Anna University; M.S., The Ohio State University  
Architectural Solutions for Mitigating Voltage Noise in GPUs

**DR. JAMES VOSS**
Google, Inc.; Boston, MA, USA  
Dr. Mikhail Belkin, Dr. Luis Rademacher  
Beavercreek, OH, USA  
M.S., The Ohio State University  
Hidden Basis Recovery: Methods and Applications in Machine Learning

**DR. KAIBO WANG**
Google Inc.; Kirkland, WA, USA  
Dr. Xiaodong Zhang  
Bozhou, China  
B.S., Northwestern Polytechnic University; M.S., Northwestern Polytechnic University  
Algorithmic and Software System Support to Accelerate Data Processing in CPU-GPU Hybrid Computing Environments

**DR. YI WANG**
Google Inc.; Mountain View CA, USA  
Dr. Gagan Agrawal  
Wuhan, China  
B.Engr., Wuhan University; M.S., The Ohio State University  
Data Management and Data Processing Support on Array-Based Scientific Data

**DR. DONALD WILLIAMSON**
Indiana University; Bloomington, IN, USA  
Dr. Deliang Wang  
Columbus, OH, USA  
B.S., University of Delaware; M.S., Drexel University; M.S., The Ohio State University  
Deep Learning Methods for Improving the Perceptual Quality of Noisy and Reverberant

**DR. SHENGQIAN YANG**
The Ohio State University, Columbus, OH USA  
Dr. Atanas Rountev  
Columbus, OH, USA  
B.S., Shanghai Jiao Tong University; M.S., The Ohio State University  
Static Analyses of GUI Behavior in Android Applications

**DR. DIEGO ZACCAI**
The Ohio State University; Columbus, OH USA  
Dr. Bruce Weide  
Bexley, OH, USA  
B.S. Computer Science and Engineering, The Ohio State University; M.S., The Ohio State University  
A Balanced Verification Effort for The Java Language

**DR. YANG ZHANG**
Google Inc.; Columbus, OH USA  
Dr. Srinivasan Parthasarathy  
Taizhou, Jiangsu, China  
B.S., Zhejiang University; M.S., The Ohio State University  
Visually Analyzing Large Scale Graphs

**DR. MAI ZHENG**
New Mexico State University, NM, USA  
Dr. Feng Qin  
Columbus, OH, USA  
B.S., Qingdao University; Master’s University of Science and Technology of China; M.S., The Ohio State University  
Towards Manifesting Reliability Issues in Modern Computer Systems

**DR. WENJIE ZHOU**
Google Inc.; Columbus, OH USA  
Dr. Prasun Sinha  
Huanggang, China  
B.S., University of Science and Technology of China; M.S., The Ohio State University  
Cross MAC-PHY Layer Channel Access Mechanism for Enterprise Wireless LANs
Masters Graduates

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Vita

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Christopher Anderson
James Davis
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Arita Sengupta
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Rajiv Ramnath
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Govind Syamkumar
Srinivasan Parthasarathy
Trivandrum, India
B. Tech., University of Kerala

Ganga Reddy Tankasala
Luis Rademacher
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Jian Wang
Xiaodong Zhang
Hang Zhaou, China
B.S., University of Iowa

Junshi Wang
Prasun Sinha
Beijing, China
B. Engr., Beijing University of Technology

Suyi Wang
Yusu Wang
Tangshan, China
Bachelor’s, Beijing Normal University

Jiabei Xu
Dong Xuan
Wuhan, China
B.S. Elec.Eng., Hubei University of Technology

Rui Yan
Gagan Agrawal
Qinhuangdao, Hebei, China
Bachelor’s, Xidian University

Fan Yang
Dong Xuan
Columbus, OH, USA
M.S., Shanghai Jiao Tong University

Quan Yu
Roger Crawfis
Anqing, Anhui, China
Bachelor’s, Master’s, Zhejiang University

Xiaobo Zhang
Feng Qin
Changsha, China
B. Engr., Central South University

Yuhao Zhang
Srinivasan Parthasarathy
Columbus, OH, USA
B. Engr., Wuhan University

Xiangyang Zhou
Gagan Agrawal
Beijing, China
B. Engr., Beihang University
The Undergraduate Programs in both CSE and CIS continue to grow even with enrollment management in place. Internship and employment opportunities abound, with recruitment from all areas increasing along with our student population.

<table>
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</table>

*The term/year of the conversion to semesters.

**THE UNDERGRADUATE ADVISING STAFF**

**Dr. Nikki Strader,** Academic Advising Coordinator, has been with the department since 2003. As advising coordinator, she manages the day-to-day operations of the CSE Undergraduate Advising Office, verifies graduation eligibility for all CSE and CIS majors, is the main point of contact for students interested in the CIS and Computational Science minors, and serves as a resource for the CSE faculty as well as for advisors across the University. She is an active member of ACADAOS (Academic Advising Association at Ohio State), for which she was President from 2006 to 2008 and from which she received one of two “Outstanding Advisor” awards in 2007. She is also a musicologist, with a Ph.D. in Music History from Ohio State.

**Leslie Dowler,** Academic Advisor, joined the CSE Advising team in September 2014 after several years as an advisor at OSU Newark. She earned a Master of Education degree in College Student Personnel from Ohio University in 2006. Leslie is the primary advisor for CSE transfer and international students and is the major advisor for BS-CIS students. She is on the Executive Committee of ACADAOS and co-chairs the Large Universities interest group of NACADA (National Academic Advising Association).

**C.A. Wade,** Academic Advisor, joined the CSE Advising team in November 2015 after a year as an advisor in the Department of Mathematics at The Ohio State University. He earned a Master of Education in Secondary Education and a Bachelor of Arts in Mathematics from The Ohio State University.
<table>
<thead>
<tr>
<th>Name, Degree</th>
<th>Honor(s) Earned</th>
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<tbody>
<tr>
<td>Ganiyu Adeola, BS</td>
<td></td>
<td>Dublin, Ohio, USA</td>
</tr>
<tr>
<td>Adam Christopher Bailey, BA</td>
<td></td>
<td>Dublin, Ohio, USA</td>
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<tr>
<td>Aaron Michel Benson, BS</td>
<td></td>
<td>Trotwood, Ohio, USA</td>
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<td>Grant Michael George Biggert, BA</td>
<td></td>
<td>Columbus, Ohio, USA</td>
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<tr>
<td>Alexander Zachary Bollas, BS</td>
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<td>Columbus, Ohio, USA</td>
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<tr>
<td>Jonathan James Briska, BA</td>
<td></td>
<td>Crystal Lake, Illinois, USA</td>
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<tr>
<td>Joseph Mark Brunner, BS</td>
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<td>Cincinnati, Ohio, USA</td>
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<tr>
<td>Andrew David Canale, BS</td>
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<td>Westerville, Ohio, USA</td>
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<tr>
<td>Daniel Michael Carlozzi, BS</td>
<td></td>
<td>Canfield, Ohio, USA</td>
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<tr>
<td>Qu Chen, BA</td>
<td>Magna Cum Laude</td>
<td>Daqig, China</td>
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<tr>
<td>Justin Thomas Chumita, BS</td>
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<td>Hilliard, Ohio, USA</td>
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<tr>
<td>Brian Andrew Cooksey, BS</td>
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<td>Columbus, Ohio, USA</td>
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<tr>
<td>Mitchell George Cooley, BS</td>
<td></td>
<td>Chardon, Ohio, USA</td>
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<tr>
<td>Drew Bernard Cosner, BA</td>
<td></td>
<td>Parma, Ohio, USA</td>
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<tr>
<td>Nicholas Wayne Darby, BS</td>
<td></td>
<td>Columbus, Ohio, USA</td>
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<tr>
<td>Garrett Stephen Davis, BA</td>
<td></td>
<td>Oak Hill, Ohio, USA</td>
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<tr>
<td>Nicholas Alan DiCocco, BS</td>
<td></td>
<td>Reynoldsburg, Ohio, USA</td>
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<tr>
<td>Mithra Doddi, BA</td>
<td></td>
<td>Dublin, Ohio, USA</td>
</tr>
<tr>
<td>Katie L. Dragga, BA</td>
<td>Summa Cum Laude</td>
<td>Lyndhurst, Ohio, USA</td>
</tr>
</tbody>
</table>

2015-2016 Bachelors Graduates
Taylor Montgomery Lilley, BS  
Findlay, Ohio, USA

Hongyuan Lu, BS  
Columbus, Ohio, USA

Claude M. Mbemba, BA  
Cum Laude  
Lewis Center, Ohio, USA

Johnny Ernesto Mercado, BS  
Columbus, Ohio, USA

John P. Mezger, BS  
Fayetteville, Ohio, USA

Joshua John Mocarski, BA  
Perry, Ohio, USA

Matthew T. Mohr, BA  
Troy, Ohio, USA

Sean Nicholas Nicely, BS  
Eighty Four, Pennsylvania, USA

Andrew Conor Nocton, BS  
Lebanon, Ohio, USA

Benjamin Jeffrey Obringer, BS  
Coldwater, Ohio, USA

Tania M. Prince, BS  
Columbus, Ohio, USA

Bennett Purple, BS  
Mason, Ohio, USA

Samuel Makem Randolph, BS  
Columbus, Ohio, USA

Daniel Edward Schlitt, BS  
Magna Cum Laude  
Ashland, Ohio, USA

Stanley B. Shaprio, BS  
Bethlehem, Pennsylvania, USA

Ryan Christopher Thomas, BS  
Brookville, Ohio, USA

Melissa Ann Trykowski, BS  
Chardon, Ohio, USA

Michael Abraham Vieth, BS  
The Woodlands, Texas, USA

Ian Michael Weber, BS  
Worthington, Ohio, USA

Jordan Michael Wilking, BA  
Magna Cum Laude  
Bellefontaine, Ohio, USA

Paul James Williams  
Broadview Heights, Ohio, USA

Xuanlin Yang, BA  
Summa Cum Laude  
Mudanjiang, China

Brian S. Zake, BA  
Akron, Ohio, USA

Lihe Zhang, BA  
Summa Cum Laude  
Urumqi, China

Danny Zhang, BS  
Lewis Center, Ohio, USA

COLLEGE OF ENGINEERING

Name (All degrees are Bachelors of Science in Computer Science and Engineering)

Abdulwasi Mohammed Abdulkarim  
Columbus, Ohio, USA

Nebras Muhammad Alnemer  
Westerville, Ohio, USA

Taumer Hani Anabtawi  
Cum Laude, with Honors in Engineering  
Columbus, Ohio, USA

Paul Julius Anderson  
Cincinnati, Ohio, USA

Nicholas Hill Armold  
Aurora, Ohio, USA

Anna Baglione  
Cum Laude, with Honors in Engineering  
Reynoldsburg, Ohio, USA

Alexander Thomas Bahas  
Pickerington, Ohio, USA

Zakariya A. Bainazarov  
Cum Laude  
Columbus, Ohio, USA
Anna Marie Baker  
Columbus, Ohio, USA

Alexander David Berger  
Magna Cum Laude, with Honors in Engineering  
Cincinnati, Ohio, USA

Parvinder Kaur Bhullar  
Columbus, Ohio, USA

Wang Bian  
Shanghai, China

Joseph Delos Bota  
Loveland, Ohio, USA

Jazmin MaShawn Brooks  
Reynoldsburg, Ohio, USA

Eric Maxwell Brunton  
Columbus, Ohio, USA

James Anand Burgess  
Chardon, Ohio, USA

Joshua David Byrne  
Magna Cum Laude  
Homer, Ohio, USA

Malcolm Sky Callis  
Magna Cum Laude  
Vanlue, Ohio, USA

Aaron Lee Camm  
Columbus, Ohio, USA

Patrick Craig Cardwell  
Columbus, Ohio, USA

Thomas Jefferson Carlin  
Cleveland, Ohio, USA

Brian Paul Carr  
Cum Laude  
Centerville, Ohio, USA

Jefferson Paul Casavant  
Cincinnati, Ohio, USA

Nicholas James Causey  
Cum Laude  
Findlay, Ohio, USA

Michael Yuan Chen  
Solon, Ohio, USA

Andrew Cheng  
Columbus, Ohio, USA

Connor Harrison Clark  
Springboro, Ohio, USA

Shane Michael Clark  
Gahanna, Ohio, USA

Andrew John Clinton  
Columbus, Ohio, USA

Alex London Cohen  
Ivyland, Pennsylvania, USA

Matthew James Conrad  
Magna Cum Laude  
Kettering, Ohio, USA

Jesse Reed Cover  
Laeger, West Virginia USA

Alexander Ashley Cueto  
Columbus, Ohio, USA

John M. Cyphert  
Summa Cum Laude  
Shleby, Ohio, USA

Brandon P. Dahl  
Tipp City, Ohio, USA

Petro Bohdan Danylewycz  
North Royalton, Ohio, USA

Devin Antonio DeCaro-Brown  
Macedonia, Ohio, USA

Feras Deiratany  
Columbus, Ohio, USA

Wilfred B. Denton  
Cum Laude  
Columbus, Ohio, USA

Dominic Joseph DiBlasio  
Independence, Ohio, USA

Mark William DiVelbiss  
Westerville, Ohio, USA

Samuel Sweeney Donnellon  
Charleston, South Carolina, USA

Kevin Patrick Dunphy  
Weston, Florida, USA

Joseph Tyler Dye  
Dublin, Ohio, USA

Aaron Scott Ebbinghaus  
Houston, Texas, USA

Scott David Ervin  
Shelby, Ohio, USA

Nima Esmali Mokaram  
Magna Cum Laude  
Chantilly, Virginia, USA

J. Allen Espinosa-Smith  
Bexley, Ohio, USA
Matthew Philip Faluotico
Stow, Ohio, USA

Gang Fang
Shanghai, China

Ryan Chase Farina
Westerville, Ohio, USA

Ryan Aaron Faulhaber
Cleveland, Ohio, USA

Peter Bryce Ferguson
Strongsville, Ohio, USA

Corey Albert Ferris
Pickerington, Ohio, USA

Brian Jacob Fintel
West Chester, Ohio, USA

Glen Lee Gainer
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Westerville, Ohio, USA

Javkhlan-Ochir Ganbat
Cum Laude
Ulaanbaatar, Mongolia

Michael Paul Gans
Cum Laude
Columbus, Ohio, USA

Morgan M. Gende
Rock Island, Illinois, USA

Stephen Matthew George
Galloway, Ohio, USA

Austin Taylor Gilliam
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Magna Cum Laude with Honors in Engineering
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Austin Christopher Grosel
Avon Lake, Ohio, USA

Yifan Gu
Shanghai, China

Jared Hagans
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Thomas Joseph Hartz
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Abigail Haseley
Lockport, New York, USA

John Arnold Haviland
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Joseph Mackenzie Hayden
Cum Laude
Felicity, Ohio, USA

Yunan He
Shenzhen, China

Jared Michael Headings
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Kelly Marie Hill
Mentor, Ohio, USA

Matthew Robert Hilty
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Sydney Alexandra Hodge
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Warrensville Hts, Ohio, USA

Curtis Mark Holton
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Russellville, Ohio, USA

Kaiwen Hu
Wuhan, China

Jeffrey Jay Huggins
Zanesville, Ohio, USA

Feysal Ali Ibrahim
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John William Jackson
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Westerville, Ohio, USA

Daniel Jennyu Jaung
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Daniel Jiang
Newton, Massachusetts

Ayush Kalani
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Jaipur, India
Colin Alexander Kalnasy  
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Jessica Victoria Kasson  
Blacksburg, Ohio, USA

Ryan Patrick Kast  
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Garrett Richard Kelling  
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Brian Patrick Kelly  
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Kevin Philip Kesicki  
Cum Laude  
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Nathan Timothy Kessler  
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Ian Kirchner  
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David Kinney Kohn  
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Kathryn Elizabeth Kostich  
Morrow, Ohio, USA

Jonathan Lawrence Kovacic  
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Jonathan Donals Krammer  
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West Chester, Ohio, USA

Ariane Jamie Salvador Krumel  
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Matthew Kujawinski  
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Parker Lendon Kurtz  
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Michelle Elizabeth Kusold  
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Michael Jacob Lavender  
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Marvin Qi Di Lee  
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Songqiao Li  
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Di Li  
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Jeffrey Lin  
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Samuel George Litowitz  
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Nathan Litwinowicz  
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Fangzhou Liu  
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Menghua Liu  
Shanghai, China

Qing Liu  
Cum Laude  
Shenzhen, China

Zheng Liu  
Shenzhen, China

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James Richard Lowrey  
Cum Laude with Honors in Engineering  
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Nantong, ChinaLoveland, Ohio, USA

Daniel Joseph Marchese
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David Matthew Margolis
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Samuel Lawrence Massari
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Michael K. Matonis
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Michael Eugene McGaha
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Kelsey Quinn McHenry
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Gregory Patrick McManamon
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Jimmy Mei
Brooklyn, Ohio, USA

Christopher James Menart
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Andrew Paul Miller
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Brandon Timothy Mills
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Alexander C. Moen
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Blaine Morbitzer
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Steven Lawrence Moskal
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Andrew James Motika
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Derek Thomas Murphy
Elyria, Ohio, USA

Timothy Richard Nash
Columbus, Ohio, USA

Alexander Michael Neal
Loveland, Ohio, USA

Austin Michael Neidert
Cloverdale, Ohio, USA

Justin David Neidert
Cloverdale, Ohio, USA

Bradley Daniel Nowacki
Toledo, Ohio, USA

Yuxin Ouyang
Chengdu, China

James Pan
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Dragan Vicovac Pantic
North Royalton, Ohio, USA

Trevor Alan Parks
Columbus, Ohio, USA

Brian Evan Joseph Parks
Canal Whinchester, Ohio, USA

Jared Grant Parsons
Louisville, Ohio, USA

Akash Mukesh Patel
Hilliard, Ohio, USA

Devin Bharat Patel
Worthington, Ohio, USA

Andrew James Pavlosky
North Olmsted, Ohio, USA

Tyler Joseph Pedelose
Wheeling, West Virginia, USA

Jayson Charles Perkins
Pickerington, Ohio, USA

Nicholas Arthur Ramage
Columbus, Ohio, USA
☆ Tyler Edwin Rason  
Magna Cum Laude  
Mount Vernon, Ohio, USA  

☆ Emma Leigh Rastatter  
Chagrin Falls, Ohio, USA  

☆ Gregory Evan Rogers  
Columbus, Ohio, USA  

☆ Samuel Allen Rosenstein  
Columbus, Ohio, USA  

☆ Spencer Alan Rudolph  
Magna Cum Laude  
Gates Mills, Ohio, USA  

☆ Brian Anthony Scheitlin  
Liberty Township, Ohio, USA  

☆ Cameron Andrew Schmidt  
Worthington, Ohio, USA  

☆ Derek Michael Schneider  
Cum Laude  
Columbus, Ohio, USA  

☆ Ryan Anthony Schneider  
Piqua, Ohio, USA  

☆ Zachary Joseph Schuller  
Cum Laude  
St. Peter, Missouri, USA  

☆ Jinjin Shao  
Summa Cum Laude  
HangZhou, China  

☆ Umang Sandip Sharaf  
Cum Laude  
Mumbai, India  

☆ Samson Li Shi  
Cincinnati, Ohio, USA  

☆ Kyle Joseph Shoaf  
Cincinnati, Ohio, USA  

☆ Kevin Alan Smearsoll  
Stow, Ohio, USA  

☆ Manlin Song  
Magna Cum Laude  
Shijiazhuang, China  

☆ Kaitlyn Elizabeth Spehr  
Magna Cum Laude  
Vandalia, Ohio, USA  

☆ Zachary Brett Spieler  
Buffalo Grove, Illinois, USA  

☆ Cody Lee Stammer  
Columbus, Ohio, USA  

☆ Grant Edward Stenroos  
Bath, Ohio, USA  

☆ Nathaniel William Stewart  
Magna Cum Laude  
Mason, Ohio, USA  

☆ Trevor John Stockert  
Pickerington, Ohio, USA  

☆ Brandon Thomas Stone  
Columbus, Ohio, USA  

☆ Phillip Wilberforce Stone  
Columbus, Ohio, USA  

☆ Zachery Joseph Studer  
Larue, Ohio, USA  

☆ Tatsumi Suenaga  
Dublin, Ohio, USA  

☆ Alane Laughlin Suhr  
Summa Cum Laude with Honors in Engineering  
The Plains, Ohio, USA  

☆ Jiasong Sun  
Magna Cum Laude  
Jiaxing, China  

☆ Xiaowen Sun  
Magna Cum Laude  
Dublin, Ohio, USA  

☆ Matthew R. Swisher  
Mansfield, Ohio, USA  

☆ Mark Eliseo Tareshawty  
Canfield, Ohio, USA  

☆ Timothy Calvin Taylor  
Magna Cum Laude  
Cincinnati, Ohio, USA  

☆ Thomas James Tedrow  
Chicago, Illinois USA  

☆ D. Aaron Telesman  
Cum Laude  
Hudson, Ohio, USA  

☆ Erik Frank Siegel Thiem  
Cleveland Heights, Ohio, USA  

☆ Jordan Matthew Tillman  
Cum Laude  
Dublin, Ohio, USA  

☆ Gregory Evan Rogers  
Columbus, Ohio, USA
★ Robert Walter Tishma
Columbus, Ohio, USA

★ Nicholas Adam Todd
Magna Cum Laude
Liberty Township, Ohio, USA

★ Chao Tong
Beijing, China

★ Michael Steven Trotto
Lewis Center, Ohio, USA

★ Bickramjit Singh Uppal
Worthington, Ohio, USA

★ Matthew Vaughn
Newark, Ohio, USA

★ Nathan James Wakefield
Columbus, Ohio, USA

★ Brandon Michael Walz
Cum Laude
Centerville, Ohio, USA

★ Chenyang Wang
Beijing, China

★ June Wang
Magna Cum Laude
Columbus, Ohio, USA

★ Grace L. Wannemacher
Magna Cum Laude
Beavercreek, Ohio, USA

★ Zachary A. Weil
Redding, California, USA

★ Michael Frederick Wenger
Worthington, Ohio, USA

★ Daniel Roy Whitacre
Cum Laude
Cincinnati, Ohio, USA

★ Daniel Briley White
Powell, Ohio, USA

★ Olivia Marie Whitman
Columbus, Ohio, USA

★ Christian Asataro Winterhalter
Centerville, Ohio, USA

★ Brian Wisniewski
West Chester, Ohio, USA

★ Hiroki Benhamin Witt
Brunswick, Ohio, USA

★ David Michael Wright
Summa Cum Laude with Honors in Engineering
Sylvania, Ohio, USA

★ Zjiang Yang
Nanjing, China

★ Po Yao
Columbus, Ohio, USA

★ Matthew John Yohman
Alexandria, Ohio, USA

★ Holly Marie Yosua
Honors in Engineering
Dayton, Ohio, USA

★ Allen Ming Yu
Cleveland, Ohio, USA

★ YaYing Zhao
Columbus, Ohio, USA

★ Edward Zhu
Katy, Texas, USA

★ Michael Alan Zoller
Magna Cum Laude with Honors in Engineering
Dayton, Ohio, USA
FACULTY, SCIENTISTS & STAFF

Tenured & Tenure Track Faculty

GAGAN AGRAWAL
Full Professor

B.S., Computer Science & Engineering, Indian Institute of Technology, Kanpur, India, 1991; M.S., Computer Science, University of Maryland, College Park, Maryland, 1994; Ph.D., Computer Science, University of Maryland, College Park, Maryland, 1996

Department Research Area: SYSTEMS


SPYROS BLANAS
Assistant Professor

B. Tech., Computer Science and Engineering, Indian Institute of Technology, New Delhi, 1986; M.S., Computer Science, University of Texas, Austin, 1988; Ph.D., Computer Science University of Texas, Austin, 1992.

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

Interests: Wireless Sensor Networks; Cyberphysical Systems; Fault-tolerant, Secure And Timely Computing; Distributed Systems and Networks; Component-Based Design; Formal Methods; Concurrency Semantics.

Mikhail Belkin
Associate Professor

Hon.B.Sc. with High Distinction, Mathematics, University of Toronto, 1995; M.S., Mathematics, University of Chicago, 1997; Ph.D., Mathematics, University of Chicago, 2003.

Department Research Area: ARTIFICIAL INTELLIGENCE

Interests: Machine Learning And Statistical Analysis Of Natural Data; Manifold And Spectral Methods For Machine Learning; Algorithms For Semi-Supervised Learning And Clustering; Understanding The Value Of Unlabeled Data In Pattern Recognition; Theoretical analysis of algorithms, particularly in high dimension; Connections to Human Cognition.

ANISH ARORA
Full Professor

B. Tech., Computer Science and Engineering, Indian Institute of Technology, New Delhi, 1986; M.S., Computer Science, University of Maryland, College Park, Maryland, 1994; Ph.D., Computer Science, University of Maryland, College Park, Maryland, 1996

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

Interests: Wireless Sensor Networks; Cyberphysical Systems; Fault-tolerant, Secure And Timely Computing; Distributed Systems and Networks; Component-Based Design; Formal Methods; Concurrency Semantics.

Spyros Blanas
Assistant Professor

Engineering Diploma (5-year B.Sc.), Electronics & Computer Engineering, Technical University of Crete, Greece, 2006; M.Sc., Computer Science, University of Wisconsin–Madison, 2009; Ph.D. in Computer Science from the University of Wisconsin–Madison, 2013.

Department Research Area: SYSTEMS

Interests: Database Management Systems.
MICHAEL BOND
Associate Professor

B.S., Computer Science, University of Illinois at Urbana-Champaign, 2002; M.C.S., Computer Science, University of Illinois at Urbana-Champaign, 2003; Ph.D., Computer Sciences, The University of Texas at Austin, 2008

Department Research Area: GRAPHICS

Interests: Computer Graphics; Video Game Technology; Serious Games; Scientific Visualization; Medical Imaging; Volume Rendering.

ROGER CRAWFIS
Associate Professor

B.S., Computer Science and Applied Mathematics, Purdue University, 1984; M.S., Computer Science, University of California, Davis, 1989; Ph.D., Computer Science, University of California, Davis, 1995.

Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES

Interests: Programming Languages; Software Systems; Runtime Systems; Program Analysis; Parallelism; Compilers; Security

JAMES W. DAVIS
Full Professor

B.S., Computer Science, University of Central Florida, 1994; M.S., Media Laboratory, Massachusetts Institute of Technology, 1996; Ph.D., Media Laboratory, Massachusetts Institute of Technology, 2000.

Department Research Area: ARTIFICIAL INTELLIGENCE

Interests: Computer Vision; Automatic Visual Surveillance and Monitoring; Human Activity Recognition; Video Understanding; and Human-Computer Interaction.

TAMAL K. DEY
Full Professor

B.E., Electronics, Jadavpur University, 1985; M.Tech., Computer Science, Indian Institute of Science-Bangalore, 1987; Ph.D., Computer Science, Purdue University, 1991.

Department Research Area: THEORY, GRAPHICS

Interests: Computational Geometry; Computational Topology; Geometric Modeling; Meshing; Data Analysis.
B.A., Linguistics, University of Pennsylvania, 1993; B.A.S., Computer and Cognitive Science, University of Pennsylvania; 1993; Ph.D., Computer Science, University of California, Berkeley, 1999

Department Research Area: ARTIFICIAL INTELLIGENCE

Interests: Automatic Speech Recognition; Computational Linguistics; Machine Learning.

---

B.S., Mathematics, Fu-Jen University, Taiwan, 1972; M.S., Mathematics, Fordham University, 1976; Ph.D., Computer Science, University of Minnesota, 1982.

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

Interests: Cryptography; Network Security; Parallel and Distributed Computing.

---

B.S., Electrical Engineering, Universidad de la Republica, Uruguay, 2000; M.S. Electrical Engineering, Universidad de la Republica, Uruguay, 2001; PhD Electrical and Computer Engineering, University of Minnesota, 2005.

Departmental Research areas: THEORY

Research interests: Metric geometry; shape and data analysis; computational topology.
Srinivasan Parthasarathy
Full Professor

B.E., Electrical Engineering, University of Roorkee, India, 1992; M.S., Electrical Engineering, University of Cincinnati, 1994; M.S., Computer Science, University of Rochester, 1996; Ph.D., Computer Science, University of Rochester, 2000.

Department Research Area: SYSTEMS

Interests: Data Mining; Database Systems; Network Analysis; Bioinformatics; High Performance Computing Systems.

Arnob Nandi
Assistant Professor

Bachelors in Information Science, University of Delhi, India, 2005; M.S., University of Michigan, Ann Arbor, 2007; Ph.D., University of Michigan, Ann Arbor, 2011.

Department Research Area: SYSTEMS

Interests: Database Systems; Large-scale Data Analytics; Next-generation User Interfaces; Text Analysis; Interactive Visualization.

DK Panda
Full Professor


Department Research Area: SYSTEMS

Interests: Parallel Computer Architecture; High Performance Networking; Infiniband; Exascale Computing; Programming Models; GPUs and Accelerators; Big Data; Virtualization; Cloud Computing; High Performance File Systems and Storage.

Chunyi Peng
Assistant Professor

B.E., Automation, Tsinghua University, 2002; M.E., Automation, Tsinghua University, 2005; Ph.D., Computer Science, University of California, Los Angeles, 2013.

Department Research Area: NETWORKING & DISTRIBUTED COMPUTING

Interests: Mobile Networks; Wireless Networks, Mobile Systems; Sensing and Wearable Computing; Network Security.
FENG QIN
Associate Professor

B.E., University of Science and Technology of China, 1998; M.E., Chinese Academy of Sciences, 2001; Ph.D., the University of Illinois, Urbana-Champaign, 2006.

Department Research Area: SYSTEMS

Interests: Operating Systems; Software Reliability; Security and Distributed Systems; Storage Systems

LUIS RADEMACHER
Assistant Professor

Bachelor in Engineering Sciences, Mathematics, Universidad de Chile; Santiago, Chile, 2002; Mathematical Engineering Title (Masters Equivalent) Universidad de Chile. Santiago, Chile, 2002; Ph.D., Applied Mathematics, Massachusetts Institute of Technology, 2007.

Department Research Area: THEORY

Interests: High Dimensional Geometry; Random Structures; Matrix Approximation; Optimization.

ALAN RITTER
Assistant Professor

B.S./M.S., Computer Science, Western Washington University 2006; Ph.D., Computer Science and Engineering, University of Washington 2013.

Department Research Area: ARTIFICIAL INTELLIGENCE

Interests: Information Extraction; Text Mining; Computational Linguistics; Machine Learning.

NICOLETA ROMAN
Associate Professor, Lima Campus

B.S., Computer Science, University of Bucharest, Romania, 1996; M.S., Computer Science, University of Bucharest, Romania, 1997; Ph.D., Computer Science and Engineering, The Ohio State University, Columbus, Ohio, 2005.

Department Research Area: ARTIFICIAL INTELLIGENCE

Research interests: Computational Auditory Scene Analysis; Binaural sound localization and separation; Automatic Speech Recognition; Machine Learning.
HAN-WEI SHEN
Full Professor

B.S., Computer Science & Engineering, Technical University, Sofia, Bulgaria, 1995; M.S., Computer Science, Rutgers University, 1999; Ph.D., Computer Science, Rutgers University, 2002.

Department Research Area: GRAPHICS

Interests: Computer Graphics; Information Visualization; Parallel Visualization Scientific Visualization; Visual Analytics.

P. (SADAY) SADAYAPPAN
Full Professor


Department Research Area: SYSTEMS

Interests: Compiler/Runtime Systems For High-Performance Computing; Performance Optimization; High-Productivity, High-Performance Scientific Computing.

HAN-WEI SHEN
Full Professor

B.S., Computer Science, National Taiwan University, 1988; M.S., Computer Science, State University of New York, Stony Brook, 1992; Ph.D., Computer Science, University of Utah, 1998.

Department Research Area: GRAPHICS

Interests: Computer Graphics; Information Visualization; Parallel Visualization Scientific Visualization; Visual Analytics.

NESS B. SHROFF
Ohio Eminent Scholar of Networking and Communications Endowed Chair Professor

B.S., University of Southern California, 1988; M.S.E. University of Pennsylvania, 1990; M.Phil, Columbia University, 1993; Ph.D., Columbia University, 1994.

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

Interests: Wireless Networks; Next Generation Internet; Sensor Networks; Cloud Computing; Network Optimization; Network Design and Dimensioning; Network Security; Information Theoretic Security; Queueing Theory; Dynamic Control; Network Coding; Scaling Laws; Distributed Algorithms; Complexity and Approximability; Game Theory; Pricing.
ANASTASIOS SIDIROPOULOS
Assistant Professor

Professor Diploma, Computer Science, University of Patras, 2002; MS, Computer Science, Massachusetts Institute of Technology, 2005; Ph.D., Computer Science, Massachusetts Institute of Technology, 2008.

Department Research Area: THEORY
Interests: Graph Algorithms; Computational Geometry; Metric Embeddings; Approximation Algorithms; Computational Topology.

PRASUN SINHA
Full Professor

B. Tech., Computer Science and Engineering, Indian Institute of Technology, Delhi, India, 1995; MS, Computer Science, Michigan State University, 1997; PhD, Computer Science, University of Illinois, Urbana-Champaign, 2001.

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING
Interests: Sensor Networking; Ad-hoc Networking; Mobile Computing; Wireless Networking.

PAUL A.G. SIVILOTTI
Associate Professor


Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES
Interests: Distributed Systems; Software Engineering; and Tool-based Support for Testing Component Implementations.

NEELAM SOUNDARAJAN
Associate Professor and Associate Chairperson

B.S., Physics, Bombay University, India, 1970; M.S., Physics, Bombay University, India, 1972; Ph.D., Computer Science, Bombay University, India, 1978.

Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES
Interests: Software Engineering; Reasoning about Program Behavior; Specification; Verification; Testing; Issues in Engineering Education.
KENNETH J. SUPOWIT  
Associate Professor

B.A., Linguistics, Cornell University, 1978; Ph.D., Computer Science, University of Illinois, 1981.

Department Research Area: THEORY

Interests: Combinational Algorithms.

CHRISTOPHER STEWART  
Associate Professor

B.S., Computer Science, Morehouse College, 2003; M.S., Computer Science, University of Rochester, 2005; Ph.D., Computer Science, University of Rochester, 2008.

Department Research Area: SYSTEMS

Interests: Sustainable computing; Internet services; Data-intensive services; Distributed Systems; Performance Modeling.

KANNAN SRINIVASAN  
Associate Professor

B.S., Electronics & Communications Engineering, University of Madras, Chennai, India. 2000; M.S., Electrical & Computer Engineering, Oklahoma State University, 2002; Ph.D., Electrical Engineering, Stanford University, Stanford, CA, USA, 2010.

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING


HUAN SUN  
Assistant Professor

B.S., Electronic Engineering and Information Science, University of Science and Technology of China, 2010; Ph.D., Computer Science, University of California, Santa Barbara, 2015.

Department Research Area: DATA MINING

Interests: Data Mining and Machine Learning with emphasis on text mining and understanding, network analysis, and human behavior understanding.

KENNETH J. SUPOWIT  
Associate Professor

B.A., Linguistics, Cornell University, 1978; Ph.D., Computer Science, University of Illinois, 1981.

Department Research Area: THEORY

Interests: Combinational Algorithms.
HUAMIN WANG
Assistant Professor

B.Eng., Computer Science and Engineering, Zhejiang University Hangzhou, China, 2002; M.S., Computer Science, Stanford University Stanford, CA, USA, 2004; Ph.D. in Computer Science Georgia Institute of Technology Atlanta, GA, USA, 2009.

Department Research Area: GRAPHICS


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Associate Professor

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Department Research Area: SYSTEMS

Interests: Computer Architecture, with a Focus On Designing Energy Efficient and Reliable Microprocessors and Systems.

DELIANG (LEON) WANG
Full Professor

B.S., Computer Science, Beijing University, 1983; M.S., Computer Science, Beijing University, 1986; Ph.D., Computer Science, University of Southern California, Los Angeles, 1991.

Department Research Area: ARTIFICIAL INTELLIGENCE

Interests: Machine Perception; Neurodynamics.

YANG WANG
Assistant Professor

B.E., Computer Science and Technology, Tsinghua University, 2005; M.E., Computer Science and Technology, Tsinghua University, 2008; Ph.D., Computer Science, The University of Texas at Austin, 2014

Department Research Area: SYSTEMS

Interests: Fault Tolerance; Large-scale Storage System; Correctness and Performance Debugging.
Yusu Wang  
Associate Professor


Department Research Area: GRAPHICS
Interests: Computational Geometry; Algorithms; Computational Biology; Computational Topology; Graphics; Modeling; Visualization.

Rephael Wenger  
Associate Professor

B.S.E., Computer Science, Princeton University, 1984; Ph.D., Computer Science, McGill University, 1988.

Department Research Area: GRAPHICS
Interests: Computational Geometry; Computer Visualization; Isosurface Reconstruction; and Image Processing.

Dong Xuan  
Full Professor

B.S., Electronic Engineering, Shanghai Jiao Tong University, China, 1990; M.S., Electronic Engineering, Shanghai Jiao Tong University, 1993; Ph.D., Computer Engineering, Texas A&M University, 2001.

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING
Interests: Distributed Computing; Computer Networks; Cyber Space Security.

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B.S., Electrical Engineering, Beijing University of Technology, 1982; M.S., Computer Science, University of Colorado at Boulder, 1985; Ph.D., Computer Science, University of Colorado at Boulder, 1989.

Department Research Area: SYSTEMS, NETWORKING and DISTRIBUTED COMPUTING
Interests: Data Management in Computer and Distributed Systems
YINQIAN ZHANG
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Department Research Area: Networking & Distributed Computing

Interests: Computer System Security; Cloud and Mobile Security; Privacy

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Research
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Engineering degree in Computer Science, EPITA, 2006; M.S. in Computer Science, University of Paris-Sud 11, 2006; Ph.D in Computer Science, INRIA / University of Paris-Sud 11, 2010.

Research Area: SYSTEMS
Research Interests: Compilers; High-Performance Computing; Software Systems; FPGAs.

RAJIV RAMNATH
Full Professor of Practice
Director, Collaborative for Enterprise Transformation and Innovation (C.E.T.I.)


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Assistant Professor of Practice

B.S., Mathematics and Computer Science, Bowling Green State University, 1996; M.A., Education, The Ohio State University, 1998; M.S., Computer Science and Engineering, The Ohio State University, 2007; Ph.D., Computer Science and Engineering, The Ohio State University, 2010.

Research Interests: Artificial Intelligence, particularly as it applies to Automatic Speech Recognition (ASR) and Natural Language Processing (NLP).
RESEARCH SCIENTISTS

**Virginia A. Folcik-Nivar**  
*Research Scientist*

B.S., Biology, Cleveland State University, 1988; Ph.D., Regulatory Biology, Cleveland State University, 1993; B.S., Computer Science and Engineering, The Ohio State University, 2005.

Interests: Using artificial intelligence and other computational data-analysis methods to solve problems in the areas of health care and business; searching for idiopathic disease mechanisms using combined agent-based modeling, literature searches; human pathology laboratory investigation.

**Lei Guo**  
*Research Scientist*

Bachelor in Space Physics, University of Science and Technology of China; Masters in Computer Science, University of Science and Technology of China; Ph.D. in Computer Science and Engineering, The Ohio State University, 2007.

Research Interests: Distributed Systems, Measurement and Modeling Of Internet Services, and Big Data Analytics.

**Jihun Hamm**  
*Research Scientist*

B.S. Electrical Engineering, Seoul National University, 1998; M.S. Biomedical Engineering, Seoul National University, 2002; Ph.D. Electrical Engineering, University of Pennsylvania, 2008.

Research Interests: Machine Learning; Computer Vision; Medical Imaging.

**Rubao Li**  
*Research Scientist*

B.S., Mechatronics, Jingdezhen Ceramic Institute, 2000; M.S., Computer Science, Beijing University of Technology, 2003; Ph.D., Computer Science, Chinese Academy of Sciences, 2008.

Research Interests: Distributed and Parallel Computing Systems; Database Systems and Data Integration Systems; Computer Architecture; Storage Systems.

**Xiaoyi Lu**  
*Research Scientist*


Research Interests: Parallel Computing (MPI/PGAS) and Cloud Computing (Big Data, Hadoop Ecosystem).

**Hari Subramoni**  
*Research Scientist*


Research Interests: High performance computer networks, Network based computing, Internet router and switch architectures.
**Post-Doctorate Researchers**

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B.S., Electric Engineering, University of Sarajevo, 1972; M.S., Computer Science, Florida Institute of Technology, 1975; Ph.D., Computer Science, The Ohio State University, 1978.

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Laurea in Scienze Dell’ Informazione, Universita’ Degli Studi di Milano, Italy, 1986; M.S., Computer & Information Science, The Ohio State University, 1989; Ph.D., Computer & Information Science, The Ohio State University, 1997.
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B.S., Computer Science, Kent State University, 2005; M.S., Computer Science, Kent State University, 2008; Ph.D., Computer Science and Engineering, The Ohio State University, 2015.

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B.A., Linguistics, Ohio State University, 1980; M.A., Linguistics, Ohio State University, 1982; J.D., Ohio State University College of Law, 1993; M.S., Computer Science and Engineering, Ohio State University, 2013.

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B.Phil., Miami University, 1978; M.S., Cornell University, 1980; M.S., Computer & Information Science, The Ohio State University, 1989; Ph.D., Computer & Information Science, The Ohio State University, 1995.

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B.S. in Computer Science, Ohio University, 1981; M.S. in Computer and Information Science, The Ohio State University, 1988; Ph.D. in Computer Science, Ohio University, 2015.

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LORI RICE
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B.S., Information Systems, Ohio Dominican College; M.A., Workforce Development and Education, The Ohio State University.

NAEEM SHAREEF
Senior Lecturer

ANATALA T. WOLF
Lecturer
B.A., Psychology, University of Illinois, Springfield; B.S., Computer Science, The Ohio State University; M.S., The Ohio State University, 2013.

BCPE, Computer Engineering, Auburn University, 1986; M.S., Computer Science, Auburn University, 1991.

INGY YOUSSEF
Lecturer

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Hossain

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Tiffany McGough - PR Coordinator and Chairperson Assistant
Kathryn Reeves - Academic Program Administrator
Christa Yandrich - Grants Administrator

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Michael Compton - Director, Computing Services
Tami King - Software Specialist
Dave Kneisly - Computer Operations/ Network Manager
Patrick Jacobs - Senior Operations Specialist
Aaron Jenkins - Systems Manager
Robert Joseph - Systems Developer / Engineer
Todd Lucal - Systems Manager
Jeff Moser - Windows Administrator
Shaun Rowland - Senior Systems Developer / Engineer
Ted Welch - Systems Manager

Part-Time Lecturers and Staff