New Faculty Profiles

Stephanie Balzer
Systems Scientist
Computer Science Department

Education:
M.S., University of Zurich, Switzerland
Ph.D., Eidgenössische Technische
Hochschule Zürich, Switzerland

Research Interests:
Programming languages, program
verification, type theory, logic

Previously at: Carnegie Mellon University
(post-doctoral researcher)

Joined SCS Faculty: Summer 2016

Nathan Beckmann
Assistant Professor
Computer Science Department

Education:
B.S., University of California at Los Angeles
B.S., University of California at Los Angeles
S.M., Massachusetts Institute of Technology
Ph.D., Massachusetts Institute of Technology

Research Interests:
Computer architecture, memory systems,
caching, parallel systems, operating
systems, distributed systems, cloud
computing, analytical modeling

Currently at: MIT's Computer Science and
Artificial Intelligence Laboratory

Starting at CMU: January 2017

Carnegie Mellon University
School of Computer Science

Taylor Berg-Kirkpatrick

Assistant Professor
Language Technologies Institute

Education:
Ph.D., University of California at Berkeley

Research Interests:
Natural language processing, machine learning, artificial intelligence

Currently at: Senior Research Scientist, Semantic Machines

Starting at CMU: Fall 2016

Iliano Cervesato

Professor
Computer Science Department
CMU Qatar

Education:
B.S., University of Udine, Italy
M.S., University of Houston, Texas
Ph.D., University of Torino, Italy

Research Interests:
Computational logic, programming

languages, computer security, encryption protocols, computer science education

Currently at: Carnegie Mellon University (teaching faculty)

Gianni A. Di Caro

Assistant Teaching Professor
Computer Science Department
CMU Qatar

Education:
Laurea, University of Bologna, Italy
D.E.A., Universite Libre de Bruxelles, Brussels, Belgium
Doctorate, Universite Libre de Bruxelles, Brussels, Belgium

Research Interests:
Planning, coordination, and navigation in robot swarms and in networked multi-robot systems; interaction and cooperation between humans and multi- robot systems; routing and control in sensor and mobile ad hoc networks; bio-inspired computing and swarm intelligence; mathematical and heuristic optimization; artificial intelligence

Currently at: Istituto "Dalle Molle" di Studi sull'Intelligenza Artificiale, Lugano, Switzerland (senior researcher)

Starting at CMU: Fall 2016

Fei Fang

Assistant Professor
Institute for Software Research

Education:
B.Eng., Tsinghua University, Beijing, China
Ph.D., University of Southern California

Research Interests:
Artificial intelligence, computational game-theory, security and sustainability, large-scale and robust optimization, spatio-temporal analysis, machine learning.

Currently at:
Harvard University (post-doctoral fellow)

Starting at CMU: Fall 2017

Katerina Fragkiadaki

Assistant Professor
Machine Learning Department

Education:
Diplomate, National Technical University of Athens, Greece
Ph.D., University of Pennsylvania

Research Interests:
Motion perception, video segmentation, tracking, body pose estimation, 3-D modeling

Currently at: Google Research

Starting at CMU: Fall 2016

Ioannis Gkioulekas

Assistant Professor
Robotics Institute

Education:
Diplomate, National Technical University of Athens, Greece
M.S., Harvard University

Research interests: Computer graphics, computer vision, computational imaging, information extraction from images, perception, acquisition, sensing technologies

Currently at:
Harvard University (Ph.D. candidate)

Starting at CMU: Spring 2017

Mayank Goel

Assistant Professor
Institute for Software Research

Education:
B.Tech., Maharaja Agrasen Institute of Technology, New Delhi, India.
M.S., Georgia Institute of Technology

Research Interests:
Designing, implementing and testing new sensing systems; mobile computing, sensing, signal processing and machine learning; health sensing, technologies for global development, and novel interactions

Currently at:
University of Washington (Ph.D. candidate)

Starting at CMU: Fall 2016

Vipul Goyal

Assistant Professor
Computer Science Department

Education:
B.Tech., Indian Institute of Technology, Varanasi, India
Ph.D., University of California at Los Angeles

Research Interests: Theoretical and applied cryptography, complexity, security and privacy, theoretical computer science

Currently at:
Microsoft Research, Bangalore, India

Starting at CMU: Spring 2017

Kris Kitani

Assistant Research Professor
Robotics Institute

Education:
B.S., University of Southern California
M.S., University of Tokyo, Japan
Ph.D., University of Tokyo, Japan

Research Interests:
Wearable cameras, first-person vision, activity forecasting and prediction, inverse optimal control, pedestrian detection by synthesis, vision for navigation for the blind, vision for upper-extremity stroke rehabilitation, deep learning

Previously at: Carnegie Mellon University (systems scientist)

Joined SCS Faculty: 2016

John Mackey

Teaching Professor
Computer Science Department

Education:
B.S., Kent State University, Ohio
Ph.D., University of Hawaii

Research Interests:
Combinatorics and graph theory, ordered sets, lattices, coding theory, computer science and mathematics curricula for K-12 students

Currently at: Carnegie Mellon University (associate head of the Department of Mathematical Studies and director of undergraduate studies)

Joining SCS Faculty: Fall 2016

Ruben Martins

Systems Scientist
Computer Science Department

Education:
B.S., University of Lisbon, Portugal
M.S., University of Lisbon, Portugal
Ph.D., University of Lisbon, Portugal

Research Interests:
Constraint programming, Boolean satisfiability and optimization, software verification, program synthesis

Previously at: University of Texas at Austin (post-doctoral researcher)

Started at CMU: Summer 2016

Stefan Mitsch

Systems Scientist
Computer Science Department

Education:
Dip.-Ing., Upper Austria University of Applied Sciences, Hagenberg
Ph.D., Johannes Kepler University, Linz, Austria

Research Interests:
Modeling, refactoring, collaboration, and verification methods for hybrid systems, applying software engineering methods to support system design and verification.

Previously at: Institute of Telecooperation, Johannes Kepler University

Started at CMU: Summer 2016

Igor Mordatch

Assistant Professor
Robotics Institute

Education:
B.S., University of Toronto, Ontario, Canada
M.S., University of Toronto, Ontario, Canada
Ph.D., University of Washington

Research Interests:
Optimal control and reinforcement learning, machine learning with neural networks, optimization, humanoid robotics, biomechanical and neural control of movement

Currently at: University of California at Berkeley (post-doctoral researcher)

Starting at CMU: Fall 2017

Katharina Muelling

Systems Scientist
Robotics Institute

Education:
Dip.-Inf., Eberhard-Karls-Universität Tübingen, Germany
Doctoral studies, Max-Planck Institute for

Intelligent Systems
Doktor-Ing., Technische Universität Darmstadt, Germany

Research Interests:
Robotics, software engineering, human motor control, computational drug design and neurobiology, manipulation, planning, robot learning architectures, machine learning, human-robot interaction, motor control and intelligent autonomous prosthetics

Started at CMU: Spring 2016

Previously at:
Max-Planck Institute for Intelligent Systems

Graham Neubig

Assistant Professor
Language Technologies Institute

Education:
B.S., University of Illinois at Urbana-Champaign
M.S., Kyoto University, Kyoto, Japan
Ph.D., Kyoto University, Kyoto, Japan

Research Interests:
Human-machine communication, natural language processing, machine translation, text analysis, language processing

Currently at: Nara Institute of Science and Technology, Ikoma, Japan

Starting at CMU: Fall 2016

Bryan Parno (E 2005, '10)

Associate Professor
Computer Science and Electrical and Computer Engineering Departments

Education:
A.B., Harvard University
M.S., Carnegie Mellon University
Ph.D., Carnegie Mellon University

Research Interests:
Security and privacy, verifiable computation and zero-knowledge proofs, developing next-generation application models

Currently at: Microsoft Research

Starting at CMU: Spring 2017

Brian Railing (CS 2004)

Assistant Teaching Professor
Computer Science Department

Education:
B.S., Carnegie Mellon University
Ph.D., Georgia Institute of Technology

Research Interests:
Understanding and analyzing parallel programs using architecture and compiler techniques

Previously at: Georgia Tech (Ph.D. student)

Started at CMU: Spring 2016

Pradeep Ravikumar (CS 2007)

Associate Professor
Machine Learning Department

Education:
B.Tech., Indian Institute of Technology, Bombay, India
Ph.D., Carnegie Mellon University

Research Interests:
Artificial intelligence, statistical machine learning, inferring conclusions from observations or data

Currently at: University of Texas at Austin

Starting at CMU: Fall 2016

Giselle Reis

Assistant Teaching Professor
Computer Science Department
CMU Qatar

Education:
B.S., Federal University of Minas Gerais,
Belo Horizonte, Brazil
M.S., Federal University of Minas Gerais,
Belo Horizonte, Brazil
Ph.D., Vienna University of Technology,
Austria

Research Interests:
Proof theory, structural proof theory,
automated deduction and logical frameworks
for developing correct software

Currently at: Institut national de recherche
en informatique et en automatique, Paris,
France (post-doctoral researcher)

Starting at CMU: Fall 2016

Justine Sherry

Assistant Professor
Computer Science Department

Education:
B.S., University of Washington
M.S., University of California at Berkeley
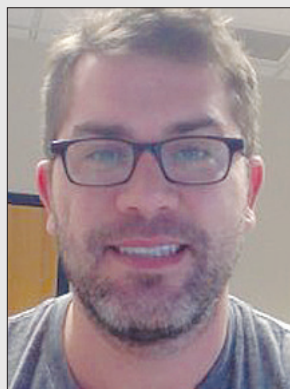Ph.D., University of California at Berkeley

Research Interests:
Computer networks, networked systems,
Internet architecture, cloud computing

Currently at:
University of California at Berkeley
(Ph.D. student)

Starting at CMU: Fall 2017

Matthew Travers

Systems Scientist
Robotics Institute

Education:
B.S., University of Colorado, Boulder
M.S., University of Colorado, Boulder
Ph.D., Northwestern University

Research Interests:
Robotics and biologically-inspired control.
Subfields include fundamental mechanics,
motion planning, biological locomotion,
snake-like robots, walking robots, and
nonlinear control.

Previously at:
Carnegie Mellon University (project scientist,
post-doctoral fellow)

Joined SCS Faculty: Summer 2016

Yulia Tsvetkov
(CS 2013, '16)

Assistant Professor
Language Technologies Institute

Education:
B.S., Technion, Israel Institute of Technology
M.S., University of Haifa, Israel
Ph.D., Carnegie Mellon University

Research Interests:
Statistical natural language processing,
statistical machine translation, computational
phonology and morphology, and
distributional and lexical semantics

Currently at:
Stanford Natural Language Processing
Group (post-doctoral researcher)

Starting at CMU: Fall 2017

Bogdan Vasilescu

Assistant Professor
Institute for Software Research

Education:
Dipl.-Ing., Universitatea Petrol-Gaze din Ploieşti, Romania
B.S., Universidad de Castilla-La Mancha, Spain
M.S., Eindhoven University of Technology, Netherlands
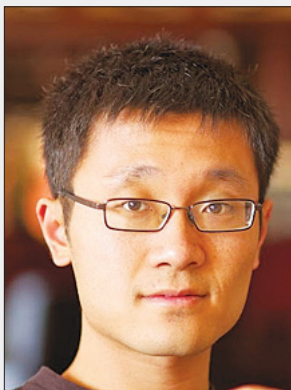Ph.D., Eindhoven University of Technology, Netherlands

Research Interests:
Scaling up distributed software development, diversity in distributed software teams, software engineering processes, productivity and outcomes in distributed software development, collaboration in online communities

Currently at:
University of California at Davis
(post-doctoral researcher)

Starting at CMU: TBA

Min Xu (CS 2012, '15)
Assistant Research Professor
Computational Biology Department

Education:
B.S., University of California at Berkeley
M.S., Carnegie Mellon University
Ph.D., Carnegie Mellon University

Research Interests:
Machine learning, statistics, network analysis, algorithms, multimedia databases, data mining, advanced statistical theory, computer vision

Currently at:
University of Pennsylvania
(post-doctoral researcher)

Starting at CMU: Fall 2016

Jean Yang
Assistant Professor
Computer Science Department

Education:
A.B., Harvard University
S.M., Massachusetts Institute of Technology
Ph.D., Massachusetts Institute of Technology

Research Interests:
Programming language design, software verification, privacy and security

Currently at:
Harvard Medical School
(post-doctoral researcher)

Starting at CMU: Fall 2016

Carnegie Mellon University
School of Computer Science

Computational Biology Department
Computer Science Department
Human-Computer Interaction Institute
Institute for Software Research
Language Technologies Institute
Machine Learning Department
Robotics Institute

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