

Sebastian S. Rodriguez

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Curriculum Vitae

sebas.me

EDUCATION

- 08/2016 – **University of Illinois at Urbana-Champaign, Champaign, IL**
Present College of Engineering
Doctor of Philosophy in Computer Science
Advisor: Alex Kirlik, PhD
- 09/2012 – **Northwestern University, Evanston, IL**
06/2016 Robert R. McCormick School of Engineering and Applied Sciences
Bachelor of Science in Computer Engineering

RESEARCH EXPERIENCE

- 08/2018 – **U.S. Army Research Laboratory, Aberdeen, MD**
Present Visiting Researcher in the Computational and Information Sciences directorate with Derrik Asher and Erin Zaroukian
Investigating the effects of complacency and emergent collaboration in heterogeneous teams consisting of humans and autonomous agents [C-3, 4, 5, 6, 7]
- 05/2018 – **U.S. Army Research Laboratory, Playa Vista, CA**
08/2018 Research Intern in the Computational and Information Sciences directorate with James Schaffer
Investigated the effects of complacency in knowledge and judgment for game-based and recommendation systems [C-2]
- 08/2016 – **Beckman Institute for Advanced Science and Technology, Urbana, IL**
05/2018 Graduate Research Assistant with Alex Kirlik
Developed an API for external devices communicating with a robotic framework which employs aerial drones to coordinate and help the elderly retain independence in their homes

PEER-REVIEWED CONFERENCE AND JOURNAL PAPERS

- C-7 Fernandez R., Zaroukian E., Humann J., Perelman B., Dorothy R., **Rodriguez S.**, Asher D. (2020)
Emergent Heterogeneous Strategies from Homogeneous Capabilities in Multi-Agent Systems
World Congress in Computer Science, Computer Engineering, and Applied Computing (CSCE) Proceedings
- C-6 Asher D., Zaroukian E., Perelman B., Perret J., Fernandez R., Hoffman B., **Rodriguez S.** (2020)
Multi-Agent Collaboration with Ergodic Spatial Distributions
SPIE Defense + Commercial Sensing Proceedings
- C-5 **Rodriguez S.**, Chen J., Deep H., Lee J., Asher D., and Zaroukian E. (2020)

Measuring Complacency in Humans Interacting with Autonomous Agents in a Multi-Agent System

SPIE Defense + Commercial Sensing Proceedings

- C-4 Asher D., Garber-Barron M., **Rodriguez S.**, Zaroukian E., and Waytowich N. (2019)

Multi-Agent Coordination Profiles Through State Space Perturbations

International Conference on Computational Science and Computational Intelligence (CSCI) Conference Proceedings

- C-3 Zaroukian E., **Rodriguez S.**, Barton S., Schaffer J., Perelman B., Waytowich N., Hoffman B., and Asher D. (2019)

Algorithmically Identifying Strategies in Multi-Agent Game-Theoretic Environments

SPIE Defense + Commercial Sensing Proceedings

- C-2 **Rodriguez S.**, Schaffer J., O'Donovan J., and Höllerer T. (2019)

Knowledge Complacency and Decision Support Systems

Cognitive and Computational Aspects of Situation Management (CogSIMA) Proceedings. **[Best Paper Award]**

- C-1 Brady C., Weintrop D., Anton G., Orton K., **Rodriguez S.**, and Wilensky U. (2016)

All Roads Lead to Computing: Making, Participatory Simulations, and Social Computing as Pathways to Computer Science

IEEE Transactions on Education

TEACHING EXPERIENCE

Spring 2020 **CS 225: Data Structures**

Department of Computer Science, University of Illinois at Urbana-Champaign

Fall 2018 **CS 498: Experimental Methods of Human Computer Interaction**

Department of Computer Science, University of Illinois at Urbana-Champaign

Spring 2016 **EECS 395: Tangible Interaction Design and Learning**

Department of Electrical Engineering and Computer Science, Northwestern University

Winter 2016 **EECS 330: Human Computer Interaction**

Department of Electrical Engineering and Computer Science, Northwestern University

Fall 2015 **EECS 111: Fundamentals of Computer Programming I**

Department of Electrical Engineering and Computer Science, Northwestern University

Spring 2015 **EECS 214: Data Structures and Data Management**

Department of Electrical Engineering and Computer Science, Northwestern University

MENTORING

2019 – Present **Jacqueline Chen**

B.S. student in Computer Science

2019 – Present **Harsh Deep**

B.S. student in Computer Science

2019 – Present **Jaewook Lee**

B.S. student in Computer Science

FUNDING

- 2020 **U.S. Army Research Laboratory Journeyman Fellowship, \$30K**
- 2016 **UIUC Graduate College Distinguished Fellowship, \$25K**
- 2016 **Illinois Sloan Scholar, \$10K**

SERVICE

- 2019 – Present **Reviewer**
Conferences: CHI PLAY '19, CHI PLAY '20
Journals: Human Factors, Production and Operations Management
- 2016 – 2018 **Computer Science Graduate Ambassador**

AWARDS AND HONORS

- 2020 **U.S. Army Research Laboratory Journeyman Fellowship**
Prestigious fellowship to complete dissertation research in collaboration with ARL
- 2019 **CogSIMA 2019 Best Paper Award**
Knowledge Complacency and Decision Support Systems [C-2]
- 2016 **Graduate College Distinguished Fellowship**
University award to support graduate studies with 2 years of funding
- 2016 **Illinois Sloan Scholar, Alfred P. Sloan Foundation's Minority Ph.D. Program**
Merit-based award for incoming minority Ph.D. students

Last updated: August 12, 2020