Sebastian S. Rodriguez

Curriculum Vitae

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sebas.me

RESEARCH INTERESTS

Human-computer interaction, human-automation/AI interaction,
cognitive science, game design and development.

EDUCATION

2016 – Present	**University of Illinois at Urbana-Champaign, Champaign, IL**
	Doctor of Philosophy in Computer Science
	Advisor: Alex Kirlik, PhD
2012 – 2016	**Northwestern University, Evanston, IL**
	Bachelor of Science in Computer Engineering

RESEARCH EXPERIENCE

2018 – Present	**U.S. Army Research Laboratory, Aberdeen, MD**
	Research Fellow 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-2, 3, 4, 5, 6]**
2018	**U.S. Army Research Laboratory, Playa Vista, CA**
	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-1]**
2016 – 2018	**Beckman Institute for Advanced Science and Technology, Urbana, IL**
	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-6	Emergent Heterogeneous Strategies from Homogeneous Capabilities in Multi-Agent Systems
	Fernandez R., Zaroukian E., Humann J., Perelman B., Dorothy R., **Rodriguez S.,** Asher D. (2020)
	World Congress in Computer Science, Computer Engineering, and Applied Computing (CSCE) Proceedings
C-5	Multi-Agent Collaboration with Ergodic Spatial Distributions
	Asher D., Zaroukian E., Perelman B., Perret J., Fernandez R., Hoffman B., **Rodriguez S**. (2020)

SPIE Defense + Commercial Sensing Proceedings

C-4   Measuring Complacency in Humans Interacting with Autonomous Agents in a Multi-Agent System
Rodriguez S., Chen J., Deep H., Lee J., Asher D., and Zaroukian E. (2020)
SPIE Defense + Commercial Sensing Proceedings

C-3   Multi-Agent Coordination Profiles Through State Space Peturbations
Asher D., Garber-Barron M., **Rodriguez S.,** Zaroukian E., and Waytowich N. (2019)
International Conference on Computational Science and Computational Intelligence (CSCI) Conference Proceedings

C-2   Algorithmically Identifying Strategies in Multi-Agent Game-Theoretic Environments
Zaroukian E., **Rodriguez S.,** Barton S., Schaffer J., Perelman B., Waytowich N., Hoffman B., and Asher D. (2019)
SPIE Defense + Commercial Sensing Proceedings

C-1   Knowledge Complacency and Decision Support Systems **[Best Paper Award]**
Rodriguez S., Schaffer J., O'Donovan J., and Höllerer T. (2019)
Cognitive and Computational Aspects of Situation Management (CogSIMA) Proceedings

J-1   All Roads Lead to Computing: Making, Participatory Simulations, and Social Computing as Pathways to Computer Science
Brady C., Weintrop D., Anton G., Orton K., **Rodriguez S.,** and Wilensky U. (2016)
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	**Jacqueline Chen**
	B.S. student in Computer Science
2019	**Harsh Deep**
	B.S. student in Computer Science
2019	**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

Reviewer	*Conferences*
	• CHI PLAY 2019, 2020
	Journals
	• Human Factors and Ergonomics Society
	• Production and Operations Management
Education	UIUC Computer Science Graduate Ambassador 2016, 2017, 2018

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-1]**
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 13, 2020