

Simon Stepputtis

PHD STUDENT · COMPUTER SCIENCE · ARIZONA STATE UNIVERSITY

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Education

PhD Student in Computer Science

ARIZONA STATE UNIVERSITY

Tempe, AZ, USA

Projected - December 2020

- **Focus** — My research is focusing on Human-Robot Interaction and Natural Language Processing

Master of Science in Engineering & Computing

TECHNISCHE UNIVERSITÄT FREIBERG

Freiberg, SA, Germany

November 2016

- **Thesis** — A data driven approach for triadic interactions in human robot interaction

Bachelor of Science in Engineering & Computing

TECHNISCHE UNIVERSITÄT FREIBERG

Freiberg, SA, Germany

Marc 2015

- **Thesis** — Upper body tracking for avatar visualisation in HMD-based virtualreality

Experience

Research Associate

ARIZONA STATE UNIVERSITY

Tempe, AZ, USA

January 2016 - Present

- **Semantic Policies** — Leveraging Natural Language Processing in for Human-Robot-Collaboration
- **Interplanetary Initiative** — Building a pro-active ExoSkeleton for usage in various space application
- **Intention Projection** — 3D projection of machine intention for explainable Artificial Intelligence

Teaching Assistant

ARIZONA STATE UNIVERSITY

Tempe, AZ, USA

January 2016 - Present

- Introduction to Theoretical Computer Science (Spring 2019)
- Introduction to Theoretical Computer Science (Spring 2018)
- Artificial Intelligence (Fall 2017)
- Advances in Robot Learning (Spring 2017)
- Object Orientated Programming and Data Structures (Spring 2017)

Robert Bosch LLC

ROBOTICS INTERN

Sunnyvale, CA, USA

May 2018 - August 2018

- Deep Learning with TensorFlow
- Pattern Recognition

Apromace Data Systems GmbH

SOFTWARE ENGINEER INTERN

Freiberg, SA, Germany

September 2016 - December 2016

- C++ Development
- Linux UI Design with Qt5

Publications

JOURNALS

One-shot Learning of Human-Robot Handovers with Triadic Interaction Meshes

DAVID VOGT, SIMON STEPPUTTIS, BERNHARD JUNG, HENI BEN AMOR

Autonomous Robots Journal (AURO)

January 2018

CONFERENCE PAPERS

Probabilistic Multimodal Modeling for Human-Robot Interaction Tasks

SIMON STEPPUTTIS, JOSEPH CAMPBELL, HENI BEN AMOR

Robotics: Science and Systems (RSS)

June 2019

Extrinsic Dexterity through Active Slip Control using Deep Predictive Models

SIMON STEPPUTTIS, YEZHOU YANG, HENI BEN AMOR

Conference on Robotics and Automation (ICRA)

May 2018

A System for Learning Continuous Human-Robot Interactions from Human-Human Demonstrations

DAVID VOGT, SIMON STEPPUTTIS, STEVE GREHL, BERNHARD JUNG, HENI BEN AMOR

Conference on Robotics and Automation (ICRA)

May 2017

Learning Human-Robot Interactions from Human-Human Demonstrations (with Applications in Lego Rocket Assembly)

DAVID VOGT, SIMON STEPPUTTIS, RICHARD WEINHOLD, BERNHARD JUNG, HENI BEN AMOR

Conference on Humanoid Robotics (Humanoids)

November 2017

WORKSHOPS AND SYMPOSIUMS

Neural Policy Translation for Robot Control

SIMON STEPPUTTIS, CHITTA BARAL, HENI BEN AMOR

Southwest Robotics Symposium

January 2019

Towards Semantic Policies for Human-Robot Collaboration

SIMON STEPPUTTIS, CHITTA BARAL, HENI BEN AMOR

Southwest Robotics Symposium

January 2018

Speech Enhanced Imitation Learning and Task Abstraction for Human-Robot Interaction

SIMON STEPPUTTIS, CHITTA BARAL, HENI BEN AMOR | WORKSHOP ON Synergies Between Learning and Interaction

Conference on Intelligent Robots and Systems (IROS)

October 2017

Deep Predictive Models for Active Slip Control

SIMON STEPPUTTIS, HENI BEN AMOR | WORKSHOP ON (Empirically) Data-Driven Robotic Manipulation

Robotics: Science and Systems (RSS)

July 2017

Active Slip Control for In-Hand Object Manipulation using Deep Predictive Models

SIMON STEPPUTTIS, HENI BEN AMOR | WORKSHOP ON Tactile Sensing for Manipulation: Hardware, Modeling, and Learning

Robotics: Science and Systems (RSS)

July 2017

Awards

Best Poster Award

AWARDED BY NVIDIA

Southwest Robotics Symposium

January 2019

CIDSE Doctoral Fellowship

AWARDED BY THE SCHOOL OF COMPUTING, INFORMATICS, AND DECISION SYSTEMS ENGINEERING

Arizona State University

January 2017, 2018 and 2019

Best Video Award

AWARDED BY THE IEEE-RAS INTERNATIONAL CONFERENCE ON HUMANOID ROBOTICS

Humanoids

November 2016

Academic Service

Program Committee

WORKSHOP ON SYNERGIES BETWEEN LEARNING AND INTERACTION

Conference on Intelligent Robots and Systems (IROS)

October 2017

Reviewer

- **Journals** — Robotic and Autonomous Systems Journal
- **Conferences** — ICRA 2019, IROS 2018, ICRA 2018, IROS 2017