Daniel J. Szafir, Curriculum Vitae

ASSISTANT PROFESSOR · UNIVERSITY OF COLORADO BOULDER

ATLAS Institute & Department of Computer Science, 1111 Engineering Drive, Boulder, CO 80309

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Research Interests_

Mission My goal is to build knowledge of how we can design novel sensing, interactive, and robotic technologies

that enable new forms of human assistance.

Interests Human-robot interaction (HRI); human-computer interaction (HCI); virtual, augmented, and mixed reality;

user-centered design; human-centered computing (HCC); aerial robotics; robotic technologies for space exploration; human-robot coordination and collaboration; educational technologies; robotic technologies

for manufacturing

Employment

Assistant Professor 2015 – Present

University of Colorado Boulder

Boulder, Colorado

Rostered: ATLAS Institute

Tenure Home: Department of Computer Science

Affiliate Appointments: Department of Aerospace Engineering; Department of Information Science; Institute of Cognitive Science; Research and Engineering Center for Unmanned Vehicles (RECUV); Center for Neuroscience; Culture, Language, and Social Practice (CLASP) Program

Research Intern Summer 2013 & Spring 2015

INTELLIGENT ROBOTICS GROUP, NASA AMES RESEARCH CENTER

Mountain View, California

Graduate Research Fellow

2010 - 2015

DEPARTMENT OF COMPUTER SCIENCES, UNIVERSITY OF WISCONSIN-MADISON

Madison, WI

Software Development Intern

INTERNATIONAL BUSINESS MACHINES (IBM), INC.,

Summer 2007 & Summer 2009

Essex Junction, Vermont

Software Development Intern

Summer 2008

TYBRIN CORPORATION

Nashua, New Hampshire

Education _____

Ph.D., Computer Science

2012 – 2015

University of Wisconsin-Madison

Madison, Wisconsin

Dissertation: "Human Interaction with Assistive Free-Flying Robots"

Committee: Bilge Mutlu (co-chair), Terrence Fong (co-chair), John Lee, Kevin Ponto, and Tom Ristenpart

NASA Space Technology Research Fellow

Master of Science, Computer Science

2010 - 2012

University of Wisconsin-Madison

Madison, Wisconsin

Bachelor of Arts, Computer Science

2006 - 2010

BOSTON COLLEGE

Chestnut Hill. Massachusetts

Honor's Thesis: "Non-Invasive BCI through EEG: An Exploration of the Utilization of Electroencephalography to Create Thought-Based Brain-Computer Interfaces"

Bachelor of Arts, History

2006 - 2010

BOSTON COLLEGE

Chestnut Hill, Massachusetts

Honors & Awards

2017	Forbes 30 Under 30: Science Named to the Forbes 30 Under 30 list of top innovators
2016	NASA Early Career Faculty Award
2015	NSF CISE Research Initiation Initiative (CRII) Award
2014	Doctoral Consortia CHI 2014 & HRI 2014
2012 – 2015	NASA Space Technology Research Fellow (NSTRF)
2010	Boston College Computer Science Accenture Award Awarded to top graduating student in Computer Science for outstanding performance
2010	Order of the Cross and Crown Boston College Honor Society for seniors demonstrating academic excellence and unusual service and leadership
2010	Phi Beta Kappa
2010	Graduated Summa Cum Laude

Publications.

JOURNAL ARTICLES

J.1. **Daniel Szafir**, Bilge Mutlu, and Terrence Fong. (2017). Designing Planning and Control Interfaces to Support User Collaboration with Flying Robots. *International Journal of Robotics Research* (IJRR), 36 (5–7), 514–542. doi: 10.1177/0278364916688256

Impact factor: 5.30

REFEREED FULL CONFERENCE PAPERS

Boston College

C.9. Catherine Diaz, Michael Walker, Danielle Albers Szafir, and **Daniel Szafir**. (2017). Designing for Depth Perceptions in Augmented Reality. In the *Proceedings of the IEEE International Symposium on Mixed and Augmented Reality (ISMAR 2017)*, Nantes, France.

Acceptance rate: 26%

C.8. Darren Guinness, **Daniel Szafir**, and Shaun Kane. (2017). GUI Robots: Using Off-the-Shelf Robots as Tangible Input and Output Devices for Unmodified GUI Applications. In the *Proceedings of the ACM Conference on Designing Interactive Systems (DIS 2017)*, Edinburgh, United Kingdom.

Acceptance rate: 24%

C.7. **Daniel Szafir**, Bilge Mutlu, and Terrence Fong. (2015). Designing Mechanisms for Communicating Directionality in Flying Robots. In the *Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction (HRI 2015)*, Portland, Oregon.

Acceptance rate: 25%

C.6. Allison Sauppé, **Daniel Szafir**, Chien-Ming Huang, and Bilge Mutlu. (2015). From 9 to 90: Engaging Learners of All Ages. In the *Proceedings of the ACM Technical Symposium on Computer Science Education (SIGCSE 2015)*, Kansas City, Missouri.

Acceptance rate: 36%

C.5. **Daniel Szafir**, Bilge Mutlu, and Terrence Fong. (2014). Communication of Intent in Assistive Free Flyers. In the *Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction (HRI 2014)*, Bielefeld, Germany.

Acceptance rate: 24%

C.4. **Daniel Szafir**, Bilge Mutlu. (2013). ARTFul: Adaptive Review Technology for Flipped Learning. In the *Proceedings of the ACM/SigCHI Conference on Human Factors in Computing Systems (CHI 2013*), Paris, France.

Acceptance rate: 20%

C.3. Kevin Ponto, Ross Tredinnick, Aaron Bartholomew, Carrie Roy, **Daniel Szafir**, Daniel Greenheck, and Joe Kohlmann. (2013). SculptUp: A Rapid, Immersive 3D Modeling Environment. In the *Proceedings of the IEEE Symposium on 3D User Interfaces (3DUI 2013)*, Orlando, Florida. doi: 10.1109/3DUI.2013.6550247

Acceptance rate: 27%

C.2. **Daniel Szafir**, Bilge Mutlu. (2012). Pay Attention! Designing Adaptive Agents that Monitor and Improve User Engagement. In the *Proceedings of the ACM/SigCHI Conference on Human Factors in Computing Systems (CHI 2012)*, Austin, Texas.

Acceptance rate: 23%

C.1. **Daniel Szafir** and Robert Signorile. (2011). An Exploration of the Utilization of Electroencephalography and Neural Nets to Control Robots. In the *Proceedings of the IFIP TC.13 International Conference on Human-Computer Interaction (INTERACT 2011)*, Lisbon, Portugal.

Acceptance rate: 22%

REFEREED SHORT CONFERENCE PAPERS

S.1. Daniel Szafir. (2014). Human Interaction with Assistive Free-Flyers. In *Doctoral Consortium Extended Abstracts of the ACM/SigCHI Conference on Human Factors in Computing Systems (CHI 2014)*, Toronto, Canada.

Acceptance rate: 25%

REFEREED WORKSHOP & SYMPOSIUM PAPERS

- W.5. **Daniel Szafir**. (2016). A Cognitive Basis for Human Interaction with Aerial Robots. In the *Proceedings* of the Workshop on Human-Robot Interaction for Small and Personal Unmanned Aerial Vehicles held at the Robotics: Science and Systems Conference (RSS 2016), Ann Arbor, Michigan.
- W.4. Steve McGuire, P. Michael Furlong, Christoffer Heckman, Simon Julier, Daniel Szafir, and Nisar Ahmed. (2016). Teamwork Across the Stars: Machine Learning to Overcome the Brittleness of Autonomy. In the *Proceedings of the Workshop on Human-Robot Collaboration: Towards Co-Adaptive Learning Through Semi-Autonomy and Shared Control held at the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2016)*, Daejeon, Korea.
- W.3. Danielle Albers Szafir and Daniel Szafir. (2016). Cognitive Load in Visualization: Myths and Misconceptions. In the *Proceedings of the Creation, Curation, Critique and Conditioning of Principles and Guidelines in Visualization (C4PGV 2016)* held at the IEEE Conference on Visual Analytics Systems and Technology, Information Visualization, and Scientific Visualization (VIS 2016), Baltimore, Maryland.
- W.2. **Daniel Szafir**. (2014). Human Interaction with Assistive Free-Flyers. In the *Proceedings of the Human-Robot Interaction Pioneers Workshop held at the ACM/IEEE International Conference on Human-Robot Interaction (HRI 2014)*, Bielefeld, Germany.
- W.1. **Daniel Szafir** and Kevin Ponto. (2012). Panoramic Imagery of Physical Locations Inside Immersive Environments. In the *Proceedings of the Midwest Graphics Conference (Midgraph 2012)*, Chicago, Illinois.

REFEREED ABSTRACTS

- A.2. Steven Johnson, Xiang Zhi Tan, **Daniel Szafir**, and Bilge Mutlu. (2014). Using At-A-Glance Displays to Enhance Student Attention. In the *McPherson Eye Research Institute (MERI)* Symposium, Madison, Wisconsin.
- A.1. **Daniel Szafir**, and Robert Signorile. (2010). Non-Invasive BCI through EEG. In the *New England Undergraduate Computing Symposium (NEUCS 2010)*, Boston, Massachusetts.

CONFERENCE DEMONSTRATIONS

D.1. Kevin Ponto, Ross Tredinnick, Aaron Bartholomew, Carrie Roy, **Daniel Szafir**, Daniel Greenheck, and Joe Kohlmann. (2013). SculptUp: A Rapid, Immersive 3D Modeling Environment. In the *IEEE Symposium on 3D User Interfaces (3DUI 2013) Contest*, Orlando, Florida.

THESES

- T.2. **Daniel Szafir**. (2015). Human Interaction with Assistive Free-Flying Robots. *Doctoral Dissertation*, University of Wisconsin–Madison, Madison, WI, USA.
- T.1. **Daniel Szafir.** (2010). Non-Invasive BCI through EEG: An Exploration of the Utilization of Electroencephalography to Create Thought-Based Brain-Computer Interfaces. *Bachelor's Honor's Thesis*, Boston College, Chestnut Hill, MA, USA.

TECHNICAL / POLICY REPORTS

R.1. Enhanced User Interface Working Group. (2017). Public Safety Enhanced User Interface R&D Roadmap. *National Institute of Standards and Technology's (NIST) Public Safety Communications Research (PSCR)* Program.

PATENTS

P.1. Bilge Mutlu and Daniel Szafir. (2012). Teaching System for Improving Information Retention Based on Brain-State Monitoring. U.S. Patent Application # US 13/437,699, Publication # US 20130260361 A1.

Research Grants & Gifts _____

Federal Grants

National Science Foundation Research Initiation Initiative (NSF-CISE-CRII)

LEVERAGING IMPLICIT HUMAN CUES TO DESIGN EFFECTIVE BEHAVIORS FOR COLLABORATIVE ROBOTS

Investigator: Daniel Szafir (PI)

National Aeronautics and Space Administration Early Career Faculty (NASA ECF) Award NNX16AR58G

Developing Principles for Effective Human Collaboration with Free-Flying Robots

Investigator: Daniel Szafir (PI)

Corporate and Foundation Gifts & Grants

Intel Research Award #1553595

Fusing Robotics and Consumer Devices for New Multimedia

Investigator: Daniel Szafir (PI)

University Grants

University of Colorado Boulder Innovative Seed Grant Program

FIELDVIEW: USING MOBILE DEVICES TO BLEND DATA COLLECTION AND ANALYSIS FOR FIELD RESEARCH

Investigator: Danielle Albers Szafir (PI) and Daniel Szafir (Co-I)

Fellowships and Awards with UW-Madison Affiliation

National Aeronautics and Space Administration Space Technology Research Fellowship (NSTRF) Award NNX12AN14H

EFFECTIVE HUMAN-ROBOT COLLABORATIVE WORK FOR CRITICAL MISSIONS

Investigator: Bilge Mutlu (PI) Student Fellow: Daniel Szafir

Google Glass Award

IMPROVING EVERYDAY LEARNING USING GLASS

IMPROVING EVERYDAY LEARNING USING GLASS Investigator: Bilge Mutlu (PI) and Daniel Szafir

Selected Press Coverage _____

2017 **Forbes (US)**

Research highlighted as part of inclusion in the Forbes 30 Under 30 list of top innovators

2017 **CU Engineering Magazine (US)**

Research covered in "Getting to Know Your Robot"

Amount: \$174,300 Period: 2016 - 2018

Amount: \$359,389
Period: 2016 - 2019

Amount: \$126,993 Period: 2016 - 2017

Amount: \$30,000 Period: 2016 - 2017

Amount: \$264,000

Period: 2012 - 2015

Amount: \$27,860

Period: 2013 - 2015

2016 **Daily Camera (US)**

Research covered in "CU Student Meredith Burgess brings Tech to Pole Dance"

2013 Wisconsin State Journal (US)

Research covered in "Science Festival Mixes Learning, Fun"

2012 New Scientist (UK)

Research covered in "Mind-reading Robot Teachers Keep Students Focused"

2012 **Discovery News (US)**

Research covered in "Mind-reading Robot Teachers Head to Class"

2012 **Engadget (US)**

Research covered in "Mind-reading Robotic Teachers Are More... Anyone? Anyone? Attention-grabbing"

2012 La Repubblica (Italy)

Research covered in "U.S.: Robot Teacher Seeks Out Distracted Students"

Invited Talks_

2017 **Seminar Speaker**

NASA Ames Research Center, Intelligent Robotics Group, Mountain View, California "Developing Principles for Effective Human Collaboration with Free-Flying Robots"

2017 Workshop Opening Speaker

Bridging the Gap in Space Robotics Workshop, RSS Conference, Boston, Massachusetts "Bridging the Gap in Space Robotics"

2016 **Seminar Speaker**

NASA Ames Research Center, Intelligent Robotics Group, Mountain View, California "Human-Robot Interaction at CU Boulder"

2016 **Seminar Speaker**

Aerospace Engineering Sciences, University of Colorado Boulder, Boulder, Colorado "Leveraging Cognitive Engineering for Human-Robot Interaction"

2016 **Colloquium Speaker**

Institute of Cognitive Science (ICS), University of Colorado Boulder, Boulder, Colorado "Leveraging Cognitive Engineering for Human-Robot Interaction"

2016 **Invited Speaker**

Aerospace Ventures (ASV) Day, University of Colorado Boulder, Boulder, Colorado "Design Principles for Effective Human-Robot Collaboration"

2016 **Seminar Speaker**

Human-Centered Computing (HCC) Seminar, University of Colorado Boulder, Boulder, Colorado "Human Interaction with Small Flying Robots"

2015 **Seminar Speaker**

Robotics, Controls, and Dynamic Systems (RCDS) Seminar, University of Colorado Boulder, Boulder, Colorado

"Human Interaction with Small Flying Robots"

2015 **Invited Speaker**

University of Iowa, Iowa City, Iowa

"Unlocking the Assistive Potential of Emerging Technologies"

2015 **Colloquium Speaker**

Arizona State University, Tempe, Arizona

"Unlocking the Assistive Potential of Emerging Technologies"

2015 **Colloquium Speaker**

University of Colorado Boulder, Boulder, Colorado

"Unlocking the Assistive Potential of Emerging Technologies"

Teaching

University of Colorado Boulder

CSCI 7000-008 / ATLS 5519 Human-Robot Interaction

OVERALL INSTRUCTOR EVALUATION: 5.2/6.0

Spring 2016 & 2017

Enrollment: 20 – 30

I designed and taught a graduate-level course that introduces students to the field of human-robot interaction (HRI). The course involves three key components: (1) a principles component that develops an understanding of the fundamental concepts of HRI through lectures and discussions of seminal and modern HRI research, (2) a methods component that helps students build a "toolbox" of essential qualitative and quantitative research methods, and (3) a project component in which students use their knowledge of HRI principles and methods to conduct a complete research inquiry, which encompasses posing a novel HRI research question, designing an empirical experiment, collecting and analyzing data, and reporting their findings.

CSCI 4830/7000-007 / ATLS 4519/5519 Introduction to Virtual Reality

Fall 2015, 2016, & 2017

Enrollment: 40 – 50

OVERALL INSTRUCTOR EVALUATION: 5.8/6.0

I designed and taught a combined undergraduate/graduate course to introduce students to the field of virtual reality. The course involves two key components: (1) developing an understanding of the fundamental principles of virtual reality such as presence, immersion, and engagement and (2) building technical skills for developing virtual reality applications using modern methods and tools, including WebGL and Unity. The course offers students an entry-level introduction to computer graphics and virtual reality using a combination of lectures, hands-on exercises, and team project assignments.

University of Wisconsin-Madison

CS302 Introduction to Programming

Summer 2011

Overall Instructor Evaluation: 4.19/5.00 (47 RESPONSES)

Enrollment: 88

I taught a summer section of an introductory programming course in Java. I was responsible for all aspects of the course including developing and delivering lectures, exams, and assignments and supervising TA graders.

CS302 Introduction to Programming

Fall & Spring 2010 – 2012

Enrollment: 20 – 25

OVERALL INSTRUCTOR EVALUATION: 4.84/5.00 (65 RESPONSES)

Taught four semester-long sections (~23 students/section) of an introductory programming course in Java. Responsible for preparing and presenting lectures, grading, and shared development of assignments and exams with other instructors. I received two awards for excellence in undergraduate education for my work in this course.

Advising & Mentoring _____

Graduate Student Advisees

2017 – Present Connor Brooks

Ph.D., Department of Computer Science, University of Colorado Boulder

2017 – Present Daniel Prendergast

Ph.D., Department of Computer Science, University of Colorado Boulder

2016 – Present Madhur Atreya

Ph.D., ATLAS Institute, University of Colorado Boulder

Co-advising with Mark Gross (CS/ATLAS)

2016 – Present **Hooman Hedayati**

Ph.D., Department of Computer Science, University of Colorado Boulder

2016 – Present Michael Iuzzolino

Ph.D., Department of Computer Science, University of Colorado Boulder

Co-advising with Danielle Albers Szafir (Information Science)

2016 – Present Bo "Bryan" Cao

M.S., Department of Computer Science, University of Colorado Boulder

2016 – Present **Jordan Peters**

M.S., Department of Computer Science, University of Colorado Boulder

2016 – Present Rohit Raje

M.S., Department of Computer Science, University of Colorado Boulder

2016 – Present Michael Walker

M.S., Department of Computer Science, University of Colorado Boulder

Undergraduate Student Advisees

2015 – Present Catherine Diaz

Department of Computer Science, University of Colorado Boulder

First author of ISMAR 2017 publication while an undergraduate

2016 – Present Meredith Burgess

Department of Computer Science, University of Colorado Boulder

Graduated and Past Advisees

2015 – 2016 Brandon Barrett

Department of Computer Science, University of Colorado Boulder

Thesis Committee Member

2015 – Present Darren Guinness, Ph.D. Thesis

Department of Computer Science, University of Colorado Boulder

Adviser: Shaun Kane Dissertation Title: *TBD*

2015 – Present **Stephen McGuire, Ph.D. Thesis**

Department of Aerospace Engineering Sciences, University of Colorado Boulder

Adviser: Nisar Ahmed Dissertation Title: *TBD*

2016 **Christine Fanchiang, Ph.D. Thesis**

Department of Aerospace Engineering Sciences, University of Colorado Boulder

Adviser: David M. Klaus

Dissertation Title: A Quantitative Human Spacecraft Design Evaluation Model for Assessing Crew

Accommodation and Utilization

2017 – Present Tarah Peltz, B.S. Senior Thesis

Department of Computer Science, University of Colorado Boulder

Dissertation Title: TBD

Professional Activities & Service ___

Program Committee Work

2018 **Program Committee Member**

ACM/IEEE International Conference on Human-Robot Interaction (HRI)

2017 **Program Committee Member**

Robotics: Science and Systems (RSS)

2017 Videos and Demonstrations Tracks Co-Chair

ACM/IEEE International Conference on Human-Robot Interaction (HRI)

2017 Associate Chair. Program Committee ACM/SigCHI Conference on Human Factors in Computing Systems (CHI) 2016 & 2017 **Associate Editor, Program Committee** IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN) 2016 **Associate Editor, Program Committee** IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO) 2016 **Workshop Program Committee Member** Robotics: Science and Systems (RSS) Workshop on Human-Robot Interaction for Small and Personal Unmanned Aerial Vehicles 2015 **Panel Chair & Program Committee Member** HRI Pioneers at the ACM/IEEE International Conference on Human-Robot Interaction (HRI) 2014 **Workshop Program Committee Member** Workshop on Utilizing EEG Input in Intelligent Tutoring Systems at the AAAI 12th International Conference on Intelligent Tutoring Systems (ITS)

Referee Service

Funding Agency Panelist

 National Science Foundation (NSF)

 Funding Agency Panelist

 National Aeronautics and Space Administration (NASA)

2016 & 2017 Funding Agency External Reviewer
National Science Foundation (NSF)

2012 - Present Referee for Journal Articles

International Journal of Robotics Research (IJRR)

ACM Transactions on Computer-Human Interaction (TOCHI) ACM Transactions on Interactive Intelligent Systems (TiiS) IEEE Transactions on Human-Machine Systems (THMS) IEEE Transactions on Affective Computing (TAC) IEEE Robotics and Automation Magazine (RAM)

2012 – Present Referee for Conference Proceedings

ACM/IEEE International Conference on Human-Robot Interaction (HRI) ACM/SigCHI Conference on Human Factors in Computing Systems (CHI) ACM/SigCHI Symposium on User Interface and Software Technology (UIST)

ACM/SigCHI Conference on Designing Interactive Systems (DIS) IEEE International Conference on Robotics and Automation (ICRA)

IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)

Robotics: Science and Systems Conference (RSS)

IEEE International Symposium on Mixed and Augmented Reality (ISMAR)

International Symposium on Robotics Research (ISRR)

University Service

2017 - Present Executive Committee
 ATLAS Institute, University of Colorado Boulder
 2017 - Present Computing Curriculum Committee
 ATLAS Institute, University of Colorado Boulder
 2016 - Present CU Boulder Human-Computer Interaction Consortium (HCIC) Committee
 University of Colorado Boulder
 2015 - Present Graduate Program Committee
 ATLAS Institute, University of Colorado Boulder

2016 – Present	Faculty Adviser Virtual Reality Club, University of Colorado Boulder
2016 – 2017	Faculty Search Committee Department of Computer Science, University of Colorado Boulder
2016 – 2017	Faculty Search Committee ATLAS Institute, University of Colorado Boulder
2016 – 2017	Faculty Inclusive Excellence Team BOLD Center, University of Colorado Boulder
2016 – 2017	Undergraduate Program Committee Department of Computer Science, University of Colorado Boulder
2016	Computer Science Department Video Led creation of promotional video highlighting the Computer Science Department at the University of Colorado Boulder for graduate recruiting and department advertising.
2015 – 2016	Graduate Program Committee Department of Computer Science, University of Colorado Boulder

External Research Service

2017 Workshop Organizer: Bridging the Gap in Space Robotics

Workshop at the 2017 Robotics: Science and Systems (RSS) Conference

Co-organizers: Christoffer Heckman (CU Boulder), Nisar Ahmed (CU Boulder), and Jay McMahon

(CU Boulder)

2016 Public Safety Communications Research (PSCR) User Interface R&D Working Group

National Institute of Standards and Technology (NIST) and the National Telecommunications

and Information Administration (NTIA)

Volunteering & Outreach

2017 **High School Mentoring**

Worked with high school students from the Dawson School, enabling them to gain research

experience while completing senior projects as lab interns.

2016 – 2017 Hosted Lab Visits

Hosted middle school students from the Logan School as part of STEM enrichment program

Hosted "Open Lab" event for the public as part of National Robotics Week

Hosted open lab events for the public as part of ATLAS Expo

2014 **Student Volunteer**

ACM/IEEE International Conference on Human-Robot Interaction (HRI)

2013 – 2014 Grandparents University Instructor

University of Wisconsin-Madison

Taught two sessions (~20 students/session) of a "Social Robotics" major to grandparents and grandchildren. Course used hands-on activities, multi-media presentations, and programming of Lego Mindstorms robots to teach concepts in programming and robotics to young and senior

students.

Professional and Academic Memberships_

Association for Computing Institute of Electrical and Phi Beta Kappa Honor Machinery (ACM) Electronics Engineers (IEEE) Society

Alpha Sigma Nu Jesuit Phi Alpha Theta National Honor Society Honor Society Honor Society