

# DANIEL MATTHEW HOLMAN, PH.D.

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- Intelligent, driven professional with experience gained in research and hands-on teaching roles with the University of California. Skilled in bridging the gap between technical and non-technical audiences to build understanding and insight into areas that include Artificial Intelligence and Robotics.
  - Disciplined problem solver and innovator with extensive experience with a variety of programming languages and tools.
  - Actively seeking to join a thriving organization that values innovative problem solving and the application of new and emerging technologies to address challenges in helping people learn.
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## CORE PROFICIENCIES

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| <ul style="list-style-type: none"><li>• Learning technologies</li><li>• Evaluating tools</li><li>• Programming</li></ul> | <ul style="list-style-type: none"><li>• Prototype Development</li><li>• Innovative Problem Solving</li><li>• Teaching</li></ul> | <ul style="list-style-type: none"><li>• Writing and Editing</li><li>• Research</li><li>• Interdisciplinary Collaboration</li></ul> |
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## TEACHING & RESEARCH EXPERIENCE

**LECTURER IN PHILOSOPHY** | California State University, Stanislaus, CA | 2019

- Designed and taught courses in *Professional Ethics*
- Took on additional courses to teach in *Bioethics*, *Introduction to Philosophy*, and *Philosophy and Education*

**LECTURER IN PHILOSOPHY OF COGNITIVE SCIENCE** | University of California, Merced, CA | 2019

- Led class in discussions and lectures, as well as in-class activities to engage with student learning.
- Created and administered quizzes along with written assignments and hands-on experiences with Turing machines and neural networks.

**GRADUATE RESEARCHER/TEACHING ASSISTANT** | University of California, Merced, CA | 2014 to 2018

- As a Graduate Researcher, fulfilled a key role in Cognitive Science research, coordinating and leading studies that included the exploration of motion tracking for behavioral analysis of problem-finding.
  - For the graduate dissertation, innovated a problem-finding experience that used Amazon Mechanical Turk to examine data collected in an online game implemented in JavaScript, PHP, Python and R.
  - As a Teaching Assistant, coordinated and led in-class lectures and discussions with students enrolled in courses that included *Introduction to Cognitive Science*, *Philosophy of Cognitive Science*, *Introduction to Ethics*, *Contemporary Moral Problems*, and *Introduction to Philosophy*.
  - Developed writing assignments to reinforce knowledge retention of topics discussed in class; administered and graded exams and papers, and hosted weekly office hours for one-on-one discussions.
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## WORK EXPERIENCE

**STAFF RESEARCH ASSOCIATE** | University of California, Merced, CA | 2019

- Built and implemented a means of conducting user interface tests on top of EteRNA, a citizen-science project for biochemical research.

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- Redesigned and programmed a decision task for experimental use involving an anthropomorphic robot, which I also programmed and designed methods of interacting with, along with interfacing the two systems.

**MULTIMEDIA SERVICES INTERN** | North Shore University Health System, Evanston, IL | 2011 to 2012

- Contributed to asset management for conference and meeting room equipment distributed to five hospitals and satellite facilities throughout this major Chicago area health system.
- Developed inventories of equipment in all conference and meeting rooms, including photographs and the primary point of contact for individuals needing to schedule. Delivered, set up, maintained, and retrieved multimedia equipment in accordance with the needs of internal clients.
- Scheduled and recorded lectures and teleconferences throughout the organization.
- Authored a guide that served as a continuing reference for individuals seeking to reserve meeting rooms; led training of end users on the operation of in-room touch panels and other technologies.

**TECHNICAL AIDE** | Shimer College | 2005 to 2007

- Provided support and guidance for technical functions at the college, serving as a key resource for staff.
- Assessed science lab equipment and resources; conducted inventory checks and procured materials for experiments and demonstrations.
- Contributed to recruitment efforts, building a virtual tour of the campus, allowing prospective students to learn more about the college at their own pace.
- Trained staff on use of videoconferencing; developed multimedia for class use, set up webcasts of classroom sessions, posted videos, and enabled *Shimer in Oxford* program participants to be actively involved in school governance.
- Transferred out-of-print materials to digital formats, scanning hardcopies and improving visual clarity.

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## CONFERENCES, PRESENTATIONS, AND PUBLICATIONS

### CONFERENCES

Psychonomic Society Conference, Chicago, IL, 2015  
Cognitive Science Society Conference, Pasadena, CA 2015

### PRESENTATIONS AND PAPERS

- **Holman**, D. M. & Spivey, M. J. (2016). "Connectionist models of bilingual word reading." In R. Heredia, J. Altarriba, A. Ciesliska (Eds.), *Methods in Bilingual Reading Comprehension Research*. Springer.
- Rigoli, L.M.; **Holman**, D.; Spivey, M.J.; and Kello, C.T. (2014) "Spectral convergence in tapping and physiological fluctuations: coupling and independence of 1/f noise in the central and autonomic nervous systems." *Front. Hum. Neurosci.* 8:713. doi: 10.3389/fnhum.2014.00713

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## EDUCATION & PROFESSIONAL AFFILIATIONS

### Ph.D. in Cognitive Science (2018, GPA 3.875)

University of California, Merced, CA

Dissertation: *What am I Supposed to Do? Problem Finding and its Impact on Problem Solving*

**Master of Arts in Interdisciplinary Studies, Concentration in Cognitive Science (2010, GPA 3.55)**

DePaul University, Chicago, IL

**Bachelor of Arts Degree in Liberal Studies, With Distinction (2007, GPA 3.66)**

Shimer College, Chicago, IL

Member, Cognitive Science Society

Member, MENSA

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## **TECHNICAL PROFICIENCIES**

**Programming:** HTML; C/C++; Java; JavaScript; Python; Lisp; Jess; SQL; R; MatLab; Flash

**3D Modeling:** Sketchup; Poser; Inventor; Revit; AutoCAD

**Applications:** Microsoft Office; Photoshop; Acrobat; Smart Draw; Illustrator; Inkscape; GIMP