

Steven J. Johnson

University of Wisconsin–Madison

Department of Computer Sciences
1210 W. Dayton St.
Madison, WI 53706
✉ sjj@cs.wisc.edu
📄 pages.cs.wisc.edu/~sjj

Research Interests

wearable computing, head-mounted displays (HMDs), educational technologies, computer-mediated communication, human-computer interaction (HCI)

Education

- 2013–Present **PhD: Computer Sciences**, *University of Wisconsin–Madison*.
- Studying human-computer interaction
 - Advisor: Bilge Mutlu
 - NASA Space Technology Research Fellow
- 2009–2013 **Bachelor of Arts: Quantitative Economics, Mathematics, Computer Science**, *Drake University*.
- Graduated Summa Cum Laude - GPA 4.0/4.0

Publications

Steven Johnson, Madeleine Gibson, and Bilge Mutlu. "Handheld or Handsfree? Remote Collaboration via Lightweight HUDs and Handheld Devices" *To Appear — CSCW'15: Proceedings of the 2015 ACM Conference on Computer-Supported Collaborative Work, 2015*.

Experience

Research

- 2014–Present **Human-Computer Interaction Research Assistant**, *University of Wisconsin–Madison*.
- Working on a project involving heads-up displays and brain-computer interfaces to improve student attention in classroom settings
 - Working on a project examining the effectiveness of various technologies to support remote collaboration and communicative efficiency in different task environments
- 2012–2013 **NMR auto-assignment software development**, *Drake University*.
- Collaborated with a team to develop an algorithm for assigning the order of amino acids to protein chains given an NMR dataset
 - Resulting implementation capable of assigning large portions of test data
- 2012 **Sage Open-Source Mathematics Software**, *Drake University*.
- Collaborated with a team to develop and implement a new version of the Sage Cell Server, a web-based interface allowing users to run Sage computations in their browser
 - Presented successful implementation at a conference in Seattle – it's still in use today

Work

- 2011–2013 **Technical Intern**, *MidAmerican Energy*.
- Worked on multiple long-term (6+ months) IT projects for business users
 - Worked closely with end-users to design better management software

Teaching

2013 **Teaching Assistant**, *University of Wisconsin–Madison*.

- Introductory computer science course taught in Java
- Taught four lab sections, with just shy of 100 students total

2013 **Online Calculus Tutor**, *Tutor.com*.

- Taught mathematics including the level of Calculus II to students online
- Collaborated with an assigned mentor to analyze past tutoring sessions to improve my teaching skills

Skills

Operating Systems: Linux, Windows, Mac OS X

Programming Languages: Java, PYTHON, C#, C++

Other Languages: L^AT_EX, R, JMP, Matlab

Honors and Awards

2014 NASA NSTRF Research Fellow