

# CURRICULUM VITAE

Andrea Stocco, Ph.D.

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## Education

- 04/2005** Ph. D. in Psychology, University of Trieste, Italy,  
**11/2001** “Laurea” (equivalent to M. S.) in Communication Sciences, University of Trieste, Italy.

## Academic Positions

- 09/2019 — Present** *Associate Professor*, Department of Psychology, University of Washington  
**09/2019 — Present** *Adjunct Associate Professor*, Paul G. Allen School of Computer Science and Engineering  
**06/2015 — 09/2019** *Assistant Professor*, Department of Psychology, University of Washington  
**07/2012 — 05/2015** *Research Assistant Professor*, Department of Psychology, University of Washington  
**09/2010 — 06/2012** *Research Scientist*, Institute for Language and Brain Sciences, University of Washington.  
**01/2009 — 09/2010** *Research Faculty*, Department of Psychology, Carnegie Mellon University  
**09/2008 — 12/2008** *Postdoctoral Research Associate*, Department of Psychiatry, University of Pittsburgh School of Medicine  
**09/2005 — 09/2008** *Postdoctoral Research Fellow*, Department of Psychology, Carnegie Mellon University

## Professional Memberships

Cognitive Science Society, Cognitive Neuroscience Society, Association for the Advancement of Artificial Intelligence (AAAI), Biologically Inspired Cognitive Architectures Society (BICA).

## Professional Services

- Founder** Biologically Inspired Cognitive Architectures Society  
**Director** Biologically Inspired Cognitive Architectures Society (2010-2011)  
**Reviewer:** Artificial Intelligence, Behavioral and Brain Functions, Cerebral Cortex, Cognition, Cognitive Science, Biologically Inspired Cognitive Architectures, Cortex, Journal of Artificial General Intelligence, Journal of Cognitive Neuroscience, Journal of Cognitive Systems Research; Neuropsychologia, NeuroImage, Proceedings of the National Academy of Sciences, Psychological Review, PLoS Computational Biology, PLoS ONE.  
**Action Editor:** Journal of Cognitive Systems Research (2007)  
**Organizer:** International Conference on Cognitive Modeling (2006), Twelfth ACT-R Workshop, Trieste, Italy (2005).  
**Panel Reviewer:** National Science Foundation (2017-2018).

## Department Service

- 2019-present:** Graduate Recruitment Committee: Overseeing the policy and coordinating the recruitment of incoming graduate students.  
**2017-present:** Psychology Research Pool Supervisor. Overseeing size and class accreditation for PRP, managed the graduate students in charge of the PRP, began developing new system to expand PRP to other departments.  
**2015-2017:** Graduate Teaching Award Committee.

## Awards and Honors

- 2017** Plenary Speaker, American Association for Artificial Intelligence (AAAI) Fall Symposium, Washington, D.C., November 8-10, 2017.  
**2017** Invited Speaker, 26<sup>th</sup> Ernst Strüngmann Forum, Frankfurt, Germany, May 21-26th, 2017.

- 2014** “Open Friuli” prize, given to Friulian emigrants who distinguished themselves internationally.
- 2012** Invited Faculty, International College, Spring 2012 (IK2012).
- 2009** Brain Imaging Research Center (BIRC) Young Investigator Pilot Study Award, Carnegie Mellon University, Pittsburgh, PA.
- 2002** Graduate fellowship at the University of Trieste (€80,000 over three years, awarded to the graduate student who qualified at the top of the class).
- 2001** University of Trieste, Trieste, Italy: “Dignita’ di stampa” (rarely conceded only to outstanding research dissertations)

### Selected Media Coverage

- 2016** “Brain-to-Brain Communication Is Closer Than You Think”, *Popular Mechanics*, June 7, 2016, <http://www.popularmechanics.com/science/a21220/brain-brain-communication>  
 “I’m creating telepathy technology to get brains talking”, *New Scientist*, March 2<sup>nd</sup>, 2016, <https://goo.gl/eYXiL7>
- 2014** “Learning a second language trains your brain for math”, *Pacific Standard*, September 28, 2014, <http://goo.gl/fbcm8P>  
 “Mind meld? Scientist uses his brain to control another guy's finger”, *NBC*, August 27, 2013, [goo.gl/M7p4nL](http://goo.gl/M7p4nL)  
 “Researcher remotely controls colleague's body with brain”, *USA Today*, August 27, 2013 (Front page, A1), [goo.gl/ANpWQR](http://goo.gl/ANpWQR)  
 “Mind Melds Made Real” (#13 in the Top 100 science stories of the year), *Discover Magazine*, Jan/Feb 2014, <http://goo.gl/57xSKQ>  
 “Mind melds” (#6 on the "Top 10 ideas to change the world") *CNN*, <http://goo.gl/YWdUP0>  
 “The Human Brain-to-Brain Interface” (#1 in the list of “Top 5 Neuroscience Breakthroughs of the Year”), *The Connectome*, <http://goo.gl/LHpT2o>

### Patents

- 2017** **Stocco, A.** Losey, D. M., M., Abernethy, J. A., & Rao, R. P. N. *Sensory Input Through Non-Invasive Brain Stimulation*. US Patent 20170113056.

### Current Support

- 2019-2021** (PI) Air Force Office of Scientific Research (AFOSR), award FA9550-19-1-0299 “Testing a Common Model for Human and Human-Like Intelligence”.
- 2018-2022** (co-PI). Defense Advanced Research Project Agency, (DARPA), award FA8650-18-C-7826, “[In] Cognito Veritas: Neural and Cognitive First Principles as Ground Truth for Social Simulation”.
- 2017-2021** (co-PI) National Science Foundation (NSF), award BCS-1734430 “Collaborative Research: Relationship of Cortical Field Anatomy to Network Vulnerability and Behavior”.
- 2017-2022** (co-PI) National Institutes of Health (NIH), award R01 NS099199-01 “Intrinsic Activity and Cognition in Parkinson Disease Assessed by Simultaneous fMRI/EEG”.

### Selected Invited Talks

- 2020** *Exploring Cognitive Architectures in the Era of Large Brain Data*. Virtual International Symposium on Cognitive Architecture (VISCA 2020), University of Michigan, June 5<sup>th</sup>.
- 2020** *The Algorithms That Rule Our Minds*. Open Mic Science Cafe, Bainbridge Island, February 4<sup>th</sup>
- 2019** *Effective Connectivity Analysis*. Centre for Research on Brain, Language & Music, McGill University, Montreal, CA.
- 2018** *Closed-loop Non-invasive Brain-to-brain Interfaces*. Keynote speaker at fifth annual NeuroFutures conference, Seattle, WA, June 28<sup>th</sup>.
- 2017** *The Standard Model of the Mind*. Plenary speaker at the Fall Symposium of the Association for the Advancement of Artificial Intelligence (AAAI), Washington, DC, November 9<sup>th</sup>.
- 2017** *Individual Differences in Reinforcement Learning Predict Higher-Level Cognitive Functions*. University of Victoria, BC, Canada, November 17<sup>th</sup>.

- 2016** *Implications of dynamic causal modeling analysis of fMRI data*, Third Post-Graduate ACT-R Summer School, Lancaster, PA, August 7.  
*Basal ganglia neurodynamics in language and executive functions*, Goethe University, Frankfurt, Germany, April 11th.  
*The gate and its gatekeeper: Basal ganglia neurodynamics and their implications for models of higher-level cognition*, University of Groningen, The Netherlands, April 8.
- 2015** *The Development of Brain to Brain Interfaces*, Institute for the Future (IFTF), Palo Alto, October 22, .  
*The Neural Bases of Symbolic Computations*, Arizona State University, February 19  
*The Neural Bases of Human Symbol Manipulation*, University of Washington, January 21st,
- 2014** *Brain to Brain Communication: Lessons Learned*, Harvard Medical School, Boston, MA, December 1st.  
*Symbolic References in the Brain*, Google, Inc., Mountain View, CA, April 8.
- 2013** *How the Brain Programs Itself: The Neuroscience of Rapid Behavior Reconfiguration*, Institute of Cognitive Science, University of Colorado, Boulder, December 6.  
*Channeling the Flow of Information*, University of Bangor, Wales, UK, April 23.
- 2012** *Bilingual Brain Training*, Department of Psychology, University of Hawaii at Manoa, Honolulu, HI, April 17.  
*Response Variability in Learning and Decision Making*, Department of Artificial Intelligence, University of Groningen, March 23.  
*Cognitive Control and the Programmability of Human Behavior*, Heymans Lecture, University of Groningen, the Netherlands, March 22  
*The Basal Ganglia and Cognitive Flexibility*, series of four lectures given at the International College 2012 (IK2012), Guenne, Germany, March 16-23.  
*Understanding Brain Function Through Computational Modeling: The Case of the Basal Ganglia*, Center for Statistics and Social Sciences, University of Washington, February 29.
- 2010** *Computational and Neural Mechanisms for Flexible Behavior*. Department of Artificial Intelligence, University of Groningen, The Netherlands, April 16.
- 2009** *Integrated Cognitive Architectures for Robust Decision Making*. Department of Psychology, University of Colorado at Boulder, Boulder, CO, July 9.