Isabelle Boni

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EDUCATION

UNIVERSITY OF ROCHESTER Brain and Cognitive Sciences PhD program Committee: Jessica Cantlon, Steve Piantadosi, Celeste Kidd	Rochester, NY Aug. 2016-present	
UNIVERSITY OF BIRMINGHAM MSc in Computational Neuroscience and Cognitive Robotics Advisors: Ulrik Beierholm (primary), John Barnden (secondary)	Birmingham, UK Dec. 2015	
UNIVERSITY OF CHICAGO Degree in Biology (Neuroscience specialization) / Psychology Advisors: Peggy Mason, Jean Decety, Inbal Ben-Ami Bartal	Chicago, IL Jun. 2012	
RESEARCH		
Concepts, Actions, and Objects Lab, University of RochesterAug. 2016-presentResearch Assistant (PI: Jessica Cantlon)- Assist in collecting non-human primate data (macaques, baboons, orangutans) related to numerical cognition & language		
Computation and Language Lab , <i>University of Rochester</i> Research Assistant (PI: Steve Piantadosi) - Learning to use Bayesian inference to model numerical cognition in non-here eventually children	Aug. 2016-present numan primates and	
Multisensory Integration Research, University of Birmingham / Procter & GambleResearch Assistant (primary advisor: Ulrik Beierholm)Sep. 2014-Sep. 2015- Coded an experiment to test multisensory integration using Matlab Psychophysics Toolbox- Recruited and ran subjects, performed data analysis- Compiled the results into a masters thesis		
Consciousness and its Connection to Artificial Intelligence Research Placement (secondary advisor: John Barnden) - Conducted a literature review - Presented my work at an assessed poster session	Jan. 2015-Apr. 2015	
Lab Technician, Universidad Mayor de San Andrés, Bolivia Internship (supervisor: Volga Iniguez) - RNA extraction from clinical samples to diagnose Rotovirus and Noroviru	Aug. 2013-Oct. 2013 as infections	
Alzheimer's Research, University of Chicago	Jan. 2013-Jul. 2013	

Research Assistant (supervisor: Gopal Thinakaran)
Assisted lab members with a variety of molecular techniques including: cell culture, immunofluorescence staining, gel electrophoresis, plasmid miniprep
performed basic lab duties (i.e. autoclaving, dishwashing, solution prep)

Rat Empathy, University of ChicagoJun. 2010-Jun. 2012Research Assistant (supervisors: Peggy Mason, Inbal Ben-Ami Bartal, Jean Decety)- Ran trials, conducted data analysis, literature reviews, manually and automatically codedbehavior, drew blood, performed ELISA assays to determine corticosterone levels- Programs used: Geovision, Virtualdub, Ethovision, SPSS, Matlab- Thanked in acknowledgements for paper published in Science: "Empathy and Pro-Social Behavior in Rats"

PUBLICATIONS

(technical report & student journal articles)

Beierholm, U., & Boni, I. (2015). Building computational models of rapid everyday multisensory decision making with focus on laundry. *Technical Report for Procter & Gamble*.

Boni, I. (2012). Biological and Psychological Effects on Human Space Flight. *Triple Helix*. Retrieved from <u>http://triplehelixblog.com/2012/04/biological-and-psychological-effects-of-human-space-flight/</u>

Boni, I. (2011). It's a Funny Thing: The Social Neuroscience of Humor. *Triple Helix*.

Boni, I. (2011). Hidden Obstacles in Cancer Research. *Triple Helix*. Retrieved from http://triplehelixblog.com/2011/05/hidden-obstacles-in-cancer-research/

TEACHING

Teaching Assistant , <i>University of Chicago</i> Core Biology Laboratory Teaching Assistant	
<u>Classes:</u>	
Neurobiology	Jan. 2010-Mar. 2010
Neurobiology	Sep. 2011-Dec. 2011
Microbes and Immunity	Apr. 2013-Jun. 2013
Basic Biology	Apr. 2013-Jun. 2013
<u>Responsibilities:</u>	
- Led weekly lab sessions	
- Graded weekly assignments, midterms	
- Held review sessions for 4 midterms per quarter	
Grader, University of Chicago	Apr. 2013-Jun. 2013
Nutritional Science Grader	

- Graded midterms and assignments for a class of over 100 students

AWARDS

Provost's Fellowship, University of Rochester (2016-2017) Santander Scholarship, University of Birmingham (2014-2015) Postgraduate Student Scholarship, Univiersity of Birmingham (2014-2015) Metcalf Fellowship (2012) MPA Conference Travel Award (2011)

SKILLS

Proficient in Matlab, MS Word, PowerPoint, Adobe Photoshop, Excel, Windows, Mac OS
Basic knowledge of Matlab Psychophysics Toolbox, SPSS, R, Ethovision, FinalCut, Audacity, Ubuntu

- Fluent in English & Spanish, conversant in French

SCIENCE OUTREACH

Online Editorial Team, Science Magazine

Jul. 2012-Sep. 2012

Intern

- Interviewed scientists and edited audio to compile into weekly podcasts (using SoundSoap & Audacity)

http://www.sciencemag.org/content/337/6092/365.2.full

http://www.sciencemag.org/content/337/6093/488.2.full

http://www.sciencemag.org/content/337/6096/865.2.full

http://www.sciencemag.org/content/337/6097/989.2.full

http://www.sciencemag.org/content/337/6098/1123.2.full

- Social media: read a new journal article every day and synthesized into an accessible summary to be posted on Facebook & Twitter

- Wrote scripts for & edited two videos:

Enhancing Productivity in Wastewater Management

http://video.sciencemag.org/SciOriginals/1773956072001/1

Chasing Sunlight: Cucumber Tendrils in Action

http://video.sciencemag.org/Featured/1812936094001/1

- Interviewed cover artist for the art director

http://www.sciencemag.org/content/337/6095/613