

# Kristina Rapuano, Ph.D.

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h-index: 14 • altmetric score: >1,500 (social media, news, and policy mentions)

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Researcher with 12 years of experience developing computational models to make inferences and predictions about health behavior | excels in problem-solving, creative thinking, and interpersonal communication

## Technical skills

**Programming** Python [pandas, scikit-learn, SciPy, NumPy] | R [lmer, ggplot] | Matlab | SQL | Unix (bash) | HTML | Git  
**Statistical** machine learning | predictive modeling | mixed-effects & regularized regression | dimensionality reduction | HMM  
**Quantitative** experimental design | cluster computing | data wrangling & analysis | data visualization | science communication

## Education

**Ph.D. Cognitive Neuroscience** | Dartmouth College, Hanover NH Aug 2012 – May 2018  
**B.S. Psychology/Neuroscience**, summa cum laude | Pennsylvania State University, University Park PA Aug 2007 – May 2010

## Research Experience

**Postdoctoral Associate** | Yale University, Department of Psychology May 2018 – present

- Led multiple Big Data research projects (100,000+ measurements on each of 12,000 participants collected over 10 years)
- Developed computational models to predict health-related brain and behavioral changes over time
- Co-authored 16 papers in top-tier science, neuroscience, health, and psychology journals (5 first-author; 1 senior-author)
- Presented findings at 7 conferences, 8 invited research talks, and interviews with mainstream media outlets (e.g., BBC)
- Trained and mentored over a dozen research assistants; taught 20+ technical workshops, guest lectures, seminars

**Graduate student researcher** | Dartmouth College, Psychological & Brain Sciences Department Aug 2012 – May 2018

- Designed over a dozen research experiments including the development and validation of a novel neuroimaging design
- Independently analyzed data using machine-learning and statistical models to understand real-world health behaviors
- Won 7 research awards (including highest honor dissertation award and 2 federal awards) + 2 teaching awards
- Co-authored 9 empirical papers in top-tier science, neuroscience, and health journals (2 first-author; 1 senior-author)
- Communicated findings at 11 conferences, 6 invited talks, and interviews with mainstream media outlets (e.g., NYT)
- Mentored 12 students and taught 4 courses (guest lecturer and lead TA roles), including 3 research methods courses

**Visiting research fellow** | University of Oxford (UK) & Aarhus University (DK) June 2016 – Dec 2016

- Established international collaboration to learn cutting-edge computational and dynamical systems techniques
- Analyzed brain time series data collected during various states of consciousness (i.e., during sleep; on psychedelics)
- Co-authored 4 papers in top-tier science and neuroscience journals, covered by media outlets such as Scientific American

**Postbaccalaureate fellow** | National Institute of Mental Health, National Institutes of Health June 2010 – Aug 2012

- Autonomously managed, collected, and analyzed data for a multi-institute study on the neuroscience of obesity
- Published 2 second-author papers (including in the #1 ranked neuroscience journal) and presented at 3 conferences

## Research Training

**Organization for Human Brain Mapping Hackathon** | University of Singapore & Rome, Italy Summers 2018 & 2019

**NeuroHackademy** | University of Washington, Seattle WA Summer 2018

**Kavli Summer Institute in Cognitive Neuroscience** | Santa Barbara CA & Lake Tahoe CA Summers 2017 & 2018

**Methods in Neuroscience at Dartmouth** | Dartmouth College, Hanover NH Summer 2017

**Social Cognitive Neuroscience Summer School** | International School for Advanced Studies, Trieste, Italy Summer 2014

**Neuroimaging methods training course** | University of Michigan, Ann Arbor MI Summer 2013