



Experience

- **Postdoctoral Fellow**, Max Planck Institute for Human Development, Germany, 2019-.
- **Postdoctoral Fellow**, Department of Psychology, Harvard University, USA, 2017-2019.
 - Designed a novel Reinforcement Learning paradigm to model human moral learning.
 - Conducted a meta-analysis to dissociate the role of empathic concern versus distress in altruism.
 - Created multiple R packages to analyze and visualize data (used by thousands of people worldwide).
- **Ph.D. Researcher**, Scuola Internazionale Superiore di Studi Avanzati (SISSA), Trieste, Italy, 2011-2015.
 - Collected and analyzed over a billion records of neuroimaging (both functional and anatomical) and psychophysiological (skin conductance) data to link human moral decision-making and brain function.
 - Created novel Virtual Reality paradigms to study human moral *behavior*.
 - Studied clinical deficits in autism, multiple sclerosis, and anxiety disorders.

Technical Skills

- **Programming skills**
 - Data analysis: **R** (advanced), **MATLAB** (intermediate), **Python** (beginner)
 - Web development: **HTML/CSS** (intermediate), **JavaScript** (intermediate)
 - Database management: **SQL** (intermediate)
 - Document preparation: **RMarkdown** (advanced), **xaringan** (advanced), **L^AT_EX** (intermediate)
 - Miscellaneous: **Git/GitHub**, **YAML**
- **Open-source software development** (in R; published on **CRAN**; Total downloads: **115,510**):
 - **ggstatsplot** (Downloads: **38,757**, since April 2018): Informative data visualizations with statistical analyses.
 - **groupedstats** (Downloads: **28,263**, since July 2018): Grouped statistical analyses.
 - **broomExtra** (Downloads: **27,578**, since March 2019): Enhancements for working with regression models.
 - **statsExpressions** (Downloads: **10,006**, since August 2019): Creates expressions with statistical details.
 - **pairwiseComparisons** (Downloads: **10,906**, since August 2019): Multiple pairwise comparison tests.
 - Co-author on **insight**, **parameters** (downloads: **> 500K**)
- **Techniques**: text mining, machine learning, meta-analysis, logistic/linear regression, linear/ordinal mixed effects regression, clustering (*k*-means, hierarchical cluster analysis, linear discriminant analysis), *k*-nearest neighbor, bagging, random forests, support vector machines, dimensionality reduction (PCA, ICA), Reinforcement Learning, Bayesian statistics, cross validation, neural networks, naive Bayes classification, Structural Equation Modeling, path analysis
- **Online data collection**: Qualtrics, MTurk

Publications

- **13** first author, peer-reviewed publications
Citations: **439**, *h*-index: **9**, *i10*-index: **9**, Open materials (13/13)
Selected media coverage: *Time*, *The Huffington Post*, *Daily Mail*, *la Repubblica*, etc.

Education

- **Doctor of Philosophy (Neuroscience)**, SISSA, Trieste, Italy, 2011-2015 (*summa cum laude*).
- **Master of Science (Physics)**, Department of Physics, University of Pune, India, 2008-2010.
- **Bachelor of Science (Physics)**, Fergusson College, India, 2005-2008.

Other Skills

- **Communication**: Skilled at disseminating complex ideas to a range of audiences, including scientists and the general public (> **20** talks, published articles for newspapers).
- **Advising/Project Management**: Coordinated large teams of multi-national researchers across multiple neuroimaging studies across several years. Supervised and trained **7** students' undergraduate theses.