



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.
- **Ph.D. Researcher**, Scuola Internazionale Superiore di Studi Avanzati (SISSA), Trieste, Italy, 2011-2015.
 - Collected and analyzed neuroimaging data to link 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)
 - Database management: **SQL** (intermediate)
 - Web development: **HTML/CSS** (intermediate), **JavaScript** (intermediate)
 - Document preparation: **RMarkdown** (advanced), **xaringan** (advanced), **L^AT_EX** (intermediate)
- **Open-source software development** (in R; as **lead developer**; Total downloads: **> 500K**):
 - **ggstatsplot** (Downloads: **> 100K**, 2018-): Informative data visualizations with statistical analyses.
 - **groupedstats** (Downloads: **> 70K**, 2018-): Grouped statistical analyses.
 - **broomExtra** (Downloads: **> 90K**, 2019-): Enhancements for working with regression models.
 - **statsExpressions** (Downloads: **> 70K**, 2019-): Creates expressions with statistical details.
 - **pairwiseComparisons** (Downloads: **> 70K**, 2019-): Multiple pairwise comparison tests.
 - **tidyBF** (Downloads: **> 45K**, 2020-): Tidy wrapper for Bayes Factor tests.
 - **ipmisc** (Downloads: **> 60K**, 2020-): Miscellaneous functions for data cleaning.
 - Co-author on **correlation**, **insight**, **parameters**, **ggsignif**, (downloads: **> 2M**)
- **Techniques**: text mining, meta-analysis, logistic/linear regression, mixed effects regression, clustering (*k*-means, hierarchical cluster analysis, linear discriminant analysis), *k*-nearest neighbor, bagging, random forests, SVM, dimensionality reduction (PCA, ICA), Reinforcement Learning, Bayesian statistics, cross validation, neural networks, Structural Equation Modeling, path analysis

Publications

- **13** first author, peer-reviewed publications
Citations: **767**, *h*-index: **12**, *i10*-index: **12**, 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.

Languages

Marathi (C2), Hindi (C2), English (C2), German (B2), Italian (A2)

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.