



## Experience

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- **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.
- **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

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- **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<sup>A</sup>T<sub>E</sub>X](#) (intermediate)
  - Miscellaneous: [Git/GitHub](#), [YAML](#)
- **Open-source software development** (in R; published on [CRAN](#); Total downloads: **137,226**):
  - [ggstatsplot](#) (Downloads: **43,175**, since April 2018): Informative data visualizations with statistical analyses.
  - [groupedstats](#) (Downloads: **32,254**, since July 2018): Grouped statistical analyses.
  - [broomExtra](#) (Downloads: **32,414**, since March 2019): Enhancements for working with regression models.
  - [statsExpressions](#) (Downloads: **14,999**, since August 2019): Creates expressions with statistical details.
  - [pairwiseComparisons](#) (Downloads: **14,384**, 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

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- **13** first author, peer-reviewed publications
  - Citations: **459**, *h*-index: **9**, *i*10-index: **9**, Open materials (13/13)
  - Selected media coverage: *Time*, *The Huffington Post*, *Daily Mail*, *la Repubblica*, etc.

## Education

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- **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

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- **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.