

Postdoctoral Fellow,  
Max Planck Institute  
for Human Development,  
Berlin, Germany.

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## Employment

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- **Postdoctoral Fellow**, [Max-Planck Institute for Human Development](#), Berlin, Germany, 2019-.  
Advisors: Iyad Rahwan
- **Postdoctoral Fellow**, Department of Psychology, [Harvard University](#), Cambridge, USA, 2017-2019.  
Advisors: Mina Cikara and Fiery Cushman
- **Visiting Researcher**, Scuola Internazionale Superiore di Studi Avanzati ([SISSA](#)), Trieste, Italy, 2016.

## Education

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- **Doctor of Philosophy** (Neuroscience), [SISSA](#), Trieste, Italy, 2011-2015 (*summa cum laude*).  
Thesis: *A multimodal investigation of moral decision making in harmful contexts* (Advisor: Giorgia Silani).
- **Master of Science** (Physics), Department of Physics, [University of Pune](#), India, 2008-2010 (GPA: 4.2/6).  
Thesis: *Effect of hypergravity on amylase and total protein content in germinating rice seeds*.
- **Bachelor of Science** (Physics), [Fergusson College](#), India, 2005-2008 (Score: 83%).  
Thesis: *Theoretical studies of static friction at atomic scale for unlubricated BCC solids*.  
Satish Bhide Prize for the Best Undergraduate Thesis

## Languages

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

## Publications

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(\*equal contribution, Citation count: **728**, *h*-index: **12**, *i10*-index: **12**, Open data/scripts: **13/13** publications)

- Dhaliwal, N. A.\*, **Patil, I.\***, & Cushman, F. A. (2021). Reputational and cooperative benefits of third-party compensation. *Organizational Behavior and Human Decision Processes*.  
doi:10.17605/OSF.IO/C3BSJ
- **Patil, I.\***, Larsen, E.\*, Kichic, R., & Gleichgerrcht, E. (2020). Moral cognition about harm in anxiety disorders. *Psychological Reports*. doi:10.1177/0033294120964134
- Lüdecke, D., Ben-Shachar, M. S., **Patil, I.**, & Makowski, D. (2020). Extracting, Computing and Exploring the Parameters of Statistical Models using R. *Journal of Open Source Software*, 5(51), 2445.  
https://doi.org/10.21105/joss.02445
- Makowski, D., Ben-Shachar, M. S., **Patil, I.**, & Lüdecke, D. (2020). Methods and Algorithms for Correlation Analysis in R. *Journal of Open Source Software*, 5(51), 2306.  
https://doi.org/10.21105/joss.02306
- **Patil, I.\***, Zucchelli, M. M.\*, Kool, W., Campbell, S., Fornasier, F., Calò, M., Silani, G., Cikara, M., & Cushman, F. A. (2020). Reasoning supports utilitarian resolutions to moral dilemmas across diverse measures. *Journal of Personality and Social Psychology*. doi:10.1037/pspp0000281
- **Patil, I.**, Zanon, M.\*, Novembre, G.\*, Zangrando, N., Chittaro, L., & Silani, G. (2018). Neuroanatomical basis of concern-based altruism in virtual environment. *Neuropsychologia*, 116, 34-43.  
doi:10.1016/j.neuropsychologia.2017.02.015

- **Patil, I.**, Calò, M., Fornasier, F., Cushman, F. A.\*, & Silani, G.\* (2017). The behavioral and neural basis of empathic blame. *Scientific Reports*, 7:5200. doi:10.1038/s41598-017-05299-9
- **Patil, I.**, Calò, M.\*, Fornasier, F.\*, Young, L., & Silani, G. (2017). Neuroanatomical correlates of forgiving unintentional harms. *Scientific Reports*, 7:45967. doi:10.1038/srep45967
- **Patil, I.**, Young, L., Sinay, V., & Gleichgerricht, E. (2017). Elevated moral condemnation of third-party violations in multiple sclerosis patients. *Social Neuroscience*, 12(3), 308-329. doi:10.1080/17470919.2016.1175380
- **Patil, I.\***, Melsbach, J.\*, Hennig-Fast, K., & Silani, G. (2016). Divergent roles of autistic and alexithymic traits in utilitarian moral judgments in adults with autism. *Scientific Reports*, 6:23637. doi:10.1038/srep23637
- **Patil, I.** (2015). Trait psychopathy and utilitarian moral judgement: The mediating role of action aversion. *Journal of Cognitive Psychology*, 27(3), 349-366. doi:10.1080/20445911.2015.1004334
- **Patil, I.**, & Silani, G. (2014). Alexithymia increases moral acceptability of accidental harms. *Journal of Cognitive Psychology*, 26(5), 597-614. doi:10.1080/20445911.2014.929137
- **Patil, I.**, & Silani, G. (2014). Reduced empathic concern leads to utilitarian moral judgments in trait alexithymia. *Frontiers in Psychology*, 5:501. doi:10.3389/fpsyg.2014.00501
- **Patil, I.**, Cogoni, C., Zangrando, N., Chittaro, L., & Silani, G. (2014). Affective basis of judgment-behavior discrepancy in virtual experiences of moral dilemmas, *Social Neuroscience*, 9(1), 94-107. doi:10.1080/17470919.2013.870091

## Selected Media Coverage

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*Time*, *The Huffington Post*, *Daily Mail*, *la Repubblica*, etc.

## Technical Skills

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- **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<sup>A</sup>T<sub>E</sub>X](#) (intermediate)  
 Miscellaneous: [Git/GitHub](#), [YAML](#)
- **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
- **Open-source software development** (in R; as **lead developer**; Total downloads: **488,671**):
  - [ggstatsplot](#) (Downloads: **101,848**, 2018-): Informative data visualizations with statistical analyses.
  - [groupedstats](#) (Downloads: **67,525**, 2018-): Grouped statistical analyses.
  - [broomExtra](#) (Downloads: **86,997**, 2019-): Enhancements for working with regression models.
  - [statsExpressions](#) (Downloads: **66,092**, 2019-): Creates expressions with statistical details.
  - [pairwiseComparisons](#) (Downloads: **66,293**, 2019-): Multiple pairwise comparison tests.
  - [tidyBF](#) (Downloads: **42,719**, 2020-): Tidy wrapper for Bayes Factor tests.
  - [ipmisc](#) (Downloads: **57,197**, 2020-): Miscellaneous functions for data cleaning.
  - Co-author on [correlation](#), [insight](#), [parameters](#), [ggsignif](#), (downloads: **> 2M**)
- **Statistical Analysis softwares**  
*Classical*: [SPSS](#), [jamovi](#); *Bayesian*: [JASP](#); *Structural Equation Modeling*: [Amos](#); *Power analysis*: [G\\*Power](#)

- **Functional/Structural Magnetic Resonance Imaging:** [SPM12](#)  
*Connectivity analysis:* PPI (task-based), GIFT (model-free); *Morphometry analyses:* CAT12; *Power analysis:* fmripower; *Artifact handling:* ART, ArtRepair; *Permutation tests:* SnPM13, TFCE; *ROI analysis:* MarsBar;  
*Data visualization:* Mango, bspmview
- **Online data collection:** [Qualtrics](#), [MTurk](#), [TurkPrime](#)
- **Skin conductance data analysis:** [Ledalab](#)

## Honors and Awards

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- *Chicago R Unconference* (\$200 Travel grant) by RStudio (2019).
- *Dean's Competitive Fund for Promising Scholarship Award* (\$69,000) by Harvard University (2017-2018).
- *Summer Research Fellowship for Students and Teachers* by Indian Academy of Science (2008).
- *Young Scientist Fellowship* by Indian Institute of Science, Bangalore (2005-6).
- *Dhirubhai Ambani Scholarship* by Reliance Industries Limited (2005-8).

## Advising

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- Undergraduate thesis/Internship/Exchange students: Carlotta Cogoni (2013-14); Marta Calò, Federico Fornasier (2014-15); Jens Melsbach (2015-16); Micaela Maria Zucchelli (2017-18); Stephanie Campbell (2017-18); Tom Osborn (2018-2019).

## Chaired Symposia

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- *The Role of Reasoning in Moral Decision Making.* European Society for Cognitive Psychology, Tenerife, Spain, September, 2019.
- *Inferring Moral Character from Moral Judgments.* Society for Personality and Social Psychology conference, Atlanta, Georgia, USA, March 3, 2018.
- *Nice and Right: Clarifying the Relations Between Empathy and Moral Judgment.* International Conference for Psychological Science, Amsterdam, The Netherlands, March 24, 2015.

## Invited Talks & Colloquia

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- *Reasoning supports utilitarian resolutions to sacrificial moral dilemmas.* 21st meeting of the European Society for Cognitive Psychology, Tenerife, Spain, September 28, 2019.
- *Reasoning supports utilitarian resolutions to sacrificial moral dilemmas.* EASP Meeting: Cognitive Conflicts: Taking a Cognitive Perspective on Social Phenomena, Tübingen, Germany, July 5, 2019.
- *Reputational benefits of third-party compensation.* 31st Annual Human Behavior & Evolution Society meeting, Boston, MA, USA, May 29, 2019.
- *Reasoning supports utilitarian resolutions to sacrificial moral dilemmas.* 31st APS Annual Convention, Washington, D.C., USA, May 24, 2019.
- *Reasoning and affect: Individual differences in moral conflict resolution.* Scalable Cooperation Group, MIT Media Lab, Cambridge, MA, USA, May 17, 2019.
- *Reasoning supports utilitarian resolutions to moral dilemmas across diverse measures.* Social Perception and Evaluation Lab, New York University, New York City, NY, USA, March 29, 2019.
- *ggstatsplot: R package for ggplot2 Based Plots with Statistical Details.* Boston useR Event, Boston, MA, USA, March 26, 2019.

- *ggstatsplot: R package for ggplot2 Based Plots with Statistical Details*. Harvard Psych Methods Dinners, Harvard University, Cambridge, MA, USA, February 5, 2019.
- *Reasoning supports utilitarian resolutions to moral dilemmas across diverse measures*. 'Reasoning in Moral Thought and Action' Workshop, Boston College, Boston, MA, USA, January 30, 2019.
- *Reputational benefits of third-party compensation over punishment*. Social Psychology Lunch talk series, Harvard University, Cambridge, MA, USA, November 27, 2018.
- *Reputational benefits of third-party compensation over punishment*. Boston Judgment and Decision Making Day, Boston College, Boston, MA, USA, November 2, 2018.
- *ggstatsplot: R package for ggplot2 Based Plots with Statistical Details*. Social Cognitive Development Lab, Yale University, New Haven, CT, USA, September 19, 2018.
- *Reputational benefits of third-party compensation over punishment*. Boston Area Moral Cognition Group meeting, Boston, MA, USA, March 22, 2018.
- *Moral learning privileges model-free update*. European Society for Cognitive and Affective Neuroscience meeting, Leiden University Medical Center, Leiden, Netherlands, July 21, 2018.
- *Moral learning privileges model-free update*. New England Research on Decision-Making conference, Harvard University, Cambridge, MA, USA, June 11, 2018.
- *ggstatsplot: R package for ggplot2 Based Plots with Statistical Details*. Saxe Lab meeting talk, Massachusetts Institute of Technology, Cambridge, MA, USA, June 31, 2018.
- *Reputational benefits of third-party compensation over punishment*. Boston Area Moral Cognition Group meeting, Boston, MA, USA, March 22, 2018.
- *The behavioral and neural basis of empathic blame*. Social Cognitive Science Brown Bag, Brown University, Providence, Rhode Island, USA, March 16, 2018.
- *Reputational benefits of third-party compensation over punishment*. Society for Personality and Social Psychology conference 2018, Atlanta, Georgia, USA, March 3, 2018.
- *The behavioral and neural basis of empathic blame*. The Cooperation Lab, Boston College, Boston, MA, USA, February 1, 2018.
- *The behavioral and neural basis of empathic blame*. Social Brain Brown Bag talk, Dartmouth College, Hanover, New Hampshire, USA, January 25, 2018.
- *Neuroanatomical basis of concern-based altruism in virtual environment*. Boston Judgment and Decision Making Day, Boston University, Boston, MA, USA, April 21, 2017.
- *A multimodal investigation of moral decision making in harmful contexts*. Department of Developmental Psychology and Educational Psychology, Ludwig-Maximilians-Universität, Munich, Germany, July 14, 2016.
- *Divergent role of empathy for wrongness and blame: an fMRI investigation*. International Conference for Psychological Science, Amsterdam, The Netherlands, March 24, 2015.

## Peer Review

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- **Editorial Board**, *Journal of Cognition* (2017-2019), *Thinking & Reasoning* (2018-2019).
- **Review Editor**, *Frontiers in Human Neuroscience* (2014-2019), *Frontiers in Psychiatry* (2018-2019).

- **Ad Hoc Reviewer**

[Journal articles](#) (60):

*Social Cognitive & Affective Neuroscience*(2), *Scientific Reports*(5), *Cognition*(2), *Social Neuroscience*(1), *Neuropsychologia*(2), *PLoS One*(4), *Frontiers in Psychology*(7), *Journal of Cognitive Psychology*(6), *Motivation and Emotion*(1), *Thinking & Reasoning*(3), *Social Influence*(1), *Cognition & Emotion*(1), *International Journal of Psychology*(1), *Psychiatry Research*(2), *Journal of Health and Social Sciences*(1), *Judgment and Decision Making*(1), *Evolution and Human Behavior*(1), *Frontiers in Human Neuroscience*(2), *Ethics & Behavior*(1), *Personality and Mental Health*(1), *Current Directions in Psychological Science*(1), *Journal of Neuropsychology*(1), *Current Psychology*(1), *Experimental Psychology*(1), *Social Cognition*(1), *Emotion*(3), *British Journal of Psychology*(1), *Journal of Experimental Child Psychology*(1), *Journal of Affective Disorders*(1), *Journal of Experimental Psychology: Learning, Memory, and Cognition*(1), *SAGE Open*(1), *Research in Autism Spectrum Disorders*(1), *Philosophical Psychology*(1)

[Book chapters](#) (1):

*Springer*(1)

## Articles for General Audience

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- Authored ten popular science articles in eminent Marathi newspaper *Loksatta* on various topics from science and technology (2010-2011).
- Ananthanarayan, B., Choudhary, K., Mohapatra, L., **Patil, I.**, Rustagi, A., & Shivaraj, K. (2007). Observation of Exotic Heavy Baryons, *Current Science*, 93:451-452.
- Ananthanarayan, B., Choudhary, K., Mohapatra, L., **Patil, I.**, Rustagi, A., & Shivaraj, K. (2007). Observation of Oscillation Phenomena in Heavy Mesons Systems, *Current Science*, 93:602-604.

## References

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