

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

INDRAJEET PATIL
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Employment

- **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

- **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

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

Publications/Preprints

(*equal contribution, Citation count: **1033**, *h*-index: **14**, *i10*-index: **17**, Open materials: **13/13** publications)

- **Patil, I.** (2021). Visualizations with statistical details: The 'ggstatsplot' approach. *PsyArXiv*. doi:10.31234/osf.io/p7mku
- **Patil, I.** (2021). statsExpressions: R Package for Tidy Dataframes and Expressions with Statistical Details. *PsyArXiv*. doi:10.31234/osf.io/ntbvvy
- Ahlmann-Eltze, C., & **Patil, I.** (2021). ggsignif: R Package for Displaying Significance Brackets for 'ggplot2'. *PsyArxiv*. doi:10.31234/osf.io/7awm6
- **Patil, I.**, & Tremoliere, B. (2021). I think, therefore I forgive: The role of reasoning in forgiving accidental harms. *PsyArXiv*. doi:10.31234/osf.io/8gjth
- Lüdecke, D., Ben-Shachar, M. S., **Patil, I.**, Waggoner, P., & Makowski, D. (2021). performance: An R Package for Assessment, Comparison and Testing of Statistical Models. *Journal of Open Source Software*, 6(60), 3139. doi:10.21105/joss.03139
- **Patil, I.***, Zucchelli, M. M.*, Kool, W., Campbell, S., Fornasier, F., Calò, M., Silani, G., Cikara, M., & Cushman, F. A. (2021). Reasoning supports utilitarian resolutions to moral dilemmas across diverse measures. *Journal of Personality and Social Psychology*, 120(2), 443–460.. doi:10.1037/pspp0000281
- Dhaliwal, N. A.*, **Patil, I.***, & Cushman, F. A. (2021). Reputational and cooperative benefits of third-party compensation. *Organizational Behavior and Human Decision Processes*, 164, 27-51. 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.**, 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., & Gleichgerrcht, 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

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

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)
 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; Total downloads: > 7M):

Lead developer

- **ggstatsplot** (2018-): Informative data visualizations with statistical analyses.
- **broomExtra** (2019-): Enhancements for working with regression models.
- **statsExpressions** (2019-): Creates expressions with statistical details.
- **pairwiseComparisons** (2019-): Multiple pairwise comparison tests.

Team developer

- Co-author on **correlation**, **insight**, **parameters**, **see**, **report**, **performance**, **bayestestR**, **ggsignif**

- **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

- *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

- 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

- *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

- *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

- **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

- 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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