Dr. Lei Zhang |张磊

PERSONAL DETAILS

Email:	l.zhang.13@bham.ac.uk	Website:	lei-zhang.net
Twitter:	@lei_zhang_lz	Github:	@lei-zhang
Google Scholar:	Lei Zhang	张磊	Publons:	1241390/lei-zhang

EMPLOYMENT

2022–*present*	**Associate Professor** Center for Human Brain Health/Institute for Mental Health, School of Psychology, University of Birmingham (UoB), Birmingham, UK
2022	**Lise Meitner Senior Research Fellow** Social, Cognitive and Affective Neuroscience Unit (SCAN-Unit), Faculty of Psychology, University of Vienna (UNIVIE), Vienna, Austria
2019–2021	**Postdoctoral Researcher & Lecturer,** SCAN-Unit, UNIVIE
2019–*present*	**Guest Lecturer,** Institute of Systems Neuroscience (ISN), University Medical Center Hamburg-Eppendorf (UKE), Hamburg, Germany
2019–2022	**Guest Lecturer,** Max Planck School of Cognition, Leipzig, Germany
2019–2020	**Adjunct Researcher,** Department of Psychology, University of Tromsø (UiT), Tromsø, Norway
2018	**Postdoctoral Researcher,** ISN, UKE, Hamburg, Germany
2016–2017	**Roche intern for Scientific Exchange (RiSE)** *Neuroscience and Rare Diseases*, F. Hoffmann-La Roche AG, Basel, Switzerland
2013–2017	**Predoctoral Researcher,** ISN, UKE, Hamburg, Germany
2012–2013	**Predoctoral Researcher** Basque Center on Cognition, Brain & Language (BCBL), San Sebastián, Spain

EDUCATION

2014–2018	**Ph.D. Cognitive Neuroscience (Dr. rer. biol. hum.),** *summa cum laude* University of Hamburg, Hamburg, Germany; Supervisor: Jan Gläscher
2012–2013	**M.Sc. Cognitive Neuroscience,** University of the Basque Country, Spain
2007–2011	**B.Sc. Psychology,** Beijing Normal University, Beijing, China

COMPETITIVE FELLOWSHIPS, HONORS, AND AWARDS

2022	**Rising Star Award**, Association for Psychological Science (APS)
2022	**Commendation Award for Open Science** (€300), European Society for Cognitive and Affective Neuroscience (ESCAN)
2022	Postdoc Travel Award (€2000) for a research stay at the "SFB/TRR-289: Treatment Expectation" research group, German Research Foundation (DFG)
2021	**Open & Reproducible Science Award**, Society for Social Neuroscience (S4SN)
2021	**SIPS Commendation award**, recipient for the *Chinese Open Science Network* (as committee member), Society for the Improvement of Psychological Science
2020	**Trainee Professional Development Award**, Society for Neuroscience (SfN)
2020	**Teaching Award for Early Career Researchers** (€300); also nominee for the "Corona Award" New Teaching, UNIVIE

2020	**SIPS Commendation award**, recipient for the *BayesCog* lecture series (sole contributor), Society for the Improvement of Psychological Science
2020	Nominee for Early Career Award, International Social Cognition Network, ISCON
2019	Chinese government award for outstanding dissertation abroad ($6,000)
2019	Fellow, Kavli Summer Institute in Cognitive Neuroscience ("Brain Camp"), Santa Barbara, CA, USA
2018	Fellow of Advanced Scientific Programming in Python, G-Node. Camerino, Italy
2014	Fellow, European Summer School on "Computational Modeling of Cognition with Applications to Society". Laufen, Germany
2014	Fellow, Human Brain Project (HBP) Training School. Alpbach, Austria
2010	National Scholarship for Undergraduate Students ($1,000), China

FUNDING

2023	**Erasmus+ Staff Mobility** in Higher Education (€ 3,000)
2021	Finalist, **Collegium Helveticum Junior Fellowship** (CHF 81,340), Switzerland
2021	**Lise Meitner Fellowship** (PI: € 177,980), Austrian Science Fund (FWF), Austria
2021–2022	**Faculty Research Support Grant** (PI: € 3,000) UNIVIE, Austria
2019	Researchers Career Grant (PI: € 2,300, Austrian Research Promotion Agency (FFG), Austria
2018	**Independent Postdoc Fellowship** (€ 56,000), UKE, Germany
2013–2016	**German Graduate Fellowship** (€ 43,000), DFG, Germany
2012–2013	**Spanish Graduate Fellowship** (€ 16,000), BCBL, Spain
2009–2011	National Innovation Experiment Program (€ 1,400), China
2009–2010	BNU Undergraduate Research Fund (€ 250), China

Grant as supervisor/Collaborator

2023	**Medical Research Council (MRC) AIM DTP Studentship** (~£ 90,000), UK
2023	**William K. and Katherine W. Estes Fund**, Association for Psychological Science, ($18,000; as Co-I with Charley Wu)
2022	**Wellcome Mental Health Data Prize**, Discovery Phase (£ 40,000; as Co-I with Alex Pike), Wellcome Trust, in partnership with Social Finance, UK
2020	**Volkswagen funding initiative** "Symposia & Summer Schools" (€ 21,000; as co-PI with Jan Gläscher), Volkswagen Foundation, Germany

CERTIFICATES, TRAINING SCHOOLS, AND COURSES

2022	International Summer School in Affective Sciences (ISSAS), "Emotion and Well-being", Bogis-Bossey. Switzerland
2021	Basic Teaching Qualification for Junior Staff, Teaching in Higher Education, UNIVIE
2020	Neuromatch Academy summer school on computational neuroscience (online)
2020	Computational Psychiatry Course, ETH Zurich, Switzerland
2015	Statistical Parametric Mapping (SPM) Course. ETH Zurich, Switzerland
2014	Statistical Analysis of fMRI Data. Coursera
2013	fMRI Data Acquisition and Analysis. Lübeck, Germany

LEADERSHIP & COMMITTEE SERVICE

2022–2024	eLife Community Ambassador
2022	Non-executive Director (Scientific), Top-7 shortlisted, eLife

2021–2023	OHBM Student and Postdoc Special Interest Group (SP-SIG)
2021–2022	S4SN Open Science Committee, Society for Social Neuroscience
2021	Recruitment committee member for 2 postdoc positions at the SCAN-Unit
2021	S4SN annual conference award committee, Society for Social Neuroscience
2020–*present*	Chair, Chinese Association for Psychological & Brain Science (CAPBS)
2020–*present*	COS Ambassador, Center for Open Science
2018–*present*	Steering committee member, Chinese Open Science Network (COSN)

EDITORIAL SERVICES

Review records can be found on my [Publons](#).

Associate editor	Frontiers in Psychiatry (section Social Neuroscience)
Review editor	Frontiers in Psychology (section Cognition) • Frontiers in Cognition (section Learning and Cognitive Development)
Ad-hoc Reviewer	<u>Multidisciplinary</u>: Science Advances • Nature Communications • Royal Society Open Science • Annals of the New York Academy of Sciences • Scientific Reports • PLOS One
	<u>Neuroscience:</u> eLife (member of eLife early-career reviewer pool) • PLOS Biology • Neuroscience and Biobehavioral Reviews • PLOS Computational Biology • Journal of Neuroscience • NeuroImage • Cerebral Cortex • Cortex • Human Brain Mapping • Social, Cognitive and Affective Neuroscience • Cognitive, Affective, & Behavioral Neuroscience • Frontiers in Neuroscience
	<u>Psychology:</u> Trends in Cognitive Sciences • Journal of Experimental Psychology: General • Journal of Experimental Psychology: Learning, Memory, and Cognition • Cognition • Journal of Mathematical Psychology • Social Psychological and Personality Science • Biological Psychology • Frontiers in Psychology • Acta Psychologica Sinica • Advances in Psychological Science • Journal of Psychological Science • PsyCh Journal
	<u>Psychiatry</u>: Biological Psychiatry: Cognitive Neuroscience and Neuroimaging • Autism Research • Depression and Anxiety • Frontiers in Psychiatry • Journal of Consulting and Clinical Psychology
Grant Reviewer	European Research Council Starting Grant (ERC-StG) 2021
Conference Reviewer	Cognitive Computational Neuroscience (CCN) 2019; Chinese Association for Psychological & Brain Science (CAPBS) 2019 & 2020

IMPACT, OUTREACH, AND DISSEMINATION

Ranked top 10% global reach for scientific impact; see my [ImpactStory](#) profile for a summary.

2022–*present*	Member of [EURAXESS CHINA](#)
2022	Appearance at "Employer Branding" (blog + video), UNIVIE
2022	Guest blog post, *The Science Behind Social Influence*, [Psychological Today](#)
2020	Communication & outreach of [Neuromatch Academy](#)
2020–*present*	Member of [The AI Guild](#)
2019–2022	Curator of the official Twitter account [SCAN-Unit](#) (1500+ followers)
2019–*present*	Podcast appearance at [BrainCoffee](#) & [CallingFrom](#)
2015–2017	Nacht des Wissens (Night of knowledge), UKE, Hamburg, Germany

DIVERSITY, EQUALITY, AND INCLUSION

11 / 2022	Panel member, Round-table discussion on landing an academic job in Europe, Chinese Computational Psychiatry Network
09 / 2022	Guest host for a round-table discussion on work-life balance for ECRs, Chinese Computational Psychiatry Network
2021–*present*	Network member, ALBA Network (diversity and equality in neurosciences)
08 / 2021	Panel member, ALBA Panel discussion on Diversity in Central and East Europe in the 21st century: challenges and solutions, FENS Regional meeting
2020, 2022	Nominee for the ALBA-FKNE Diversity Prize

ORGANIZATION OF CONFERENCES AND SYMPOSIA

Committee Chair	4th Chinese Association for Psychological & Brain Science (CAPBS) annual meeting (online), 14–15, November 2020
Committee	1st Computational Psychiatry Hack (CP Hack), 06–11, September 2021
	2nd CAPBS NeuroChat online conference, 28–30, May 2021
	Symposium on computational psychiatry (online), 17, April 2021
	Symposium on social computational neuroscience (online), 6, November 2020
	NeuroSync online conference: Interpersonal Neuroscience in the Social World. 13, June 2020
	1st CAPBS NeuroChat online conference, 24–26, April 2020
	3rd Chinese Association for Psychological & Brain Science (CAPBS) annual meeting. Utrecht, the Netherlands, 16–17, November 2019
Symposium Chair	"What do you desire? Multiple facets of motivation in social decision-making", 5th conference of the European Society for Cognitive and Affective Neuroscience (ESCAN), Budapest, Hungary, 23–26, June 2021 (online)
Symposium	"The righteous choice: The neurocognitive and neurocomputational mechanisms underlying moral conflict and social decision-making", 6th international conference of the European Society for Cognitive and Affective Neuroscience (ESCAN), Vienna, Austria, 19–22, July 2022.
	"Learning in social and non-social contexts in Autism", 6th ESCAN, Vienna, Austria, 19–22, July 2022.
	"Social Learning: Learning from and about others", 47th Annual Conference of Psychology and the Brain (PuG), Freiburg, Germany, 16–18, June 2022.

INVITED TALKS

05 / 2023	nEuro-economics seminar series, Human Reinforcement Learning Team (PI: Stefano Palminteri), École Normale Supérieure, Paris, France
04 / 2023	Psychological Sciences seminars, Birkbeck, University of London, UK
03 / 2023	Sensory Motor Neuroscience (SyMON) Lab, University of Birmingham, UK
08 / 2022	Open Science and Reproducibility Colloquium Series, Central Institute for Mental Health (ZI), Mannheim, Germany (online)
07 / 2022	ECR Symposium, School of Psychology & Cognitive Sciences, Peking University, Beijing, China (online)
06 / 2022	Celebrating Research and Impact Symposium, School of Psychology, University of Birmingham, UK
06 / 2022	LISCO LAB (PI: Yee Lee Shing), Institute of Psychology, Goethe University

	Frankfurt, Frankfurt, Germany
06 / 2022	Mini Symposium: Nutritional Neurosciences, Faculty of Life Sciences, UNIVIE (*Job talk*; offer declined for an assistant professorship)
05 / 2022	PRIMED+ Lab (PIs: Rachel Upthegrove, Jack Rogers), School of Psychology, University of Birmingham, UK (online)
05 / 2022	Department of Biological and Medical Psychology, Faculty of Psychology, University of Bergen, Bergen, Norway
04 / 2022	School of Psychology and Cognitive Science, East China Normal University, Shanghai, China (online)
04 / 2022	1st Brain, Behavior & Society Springschool (BBS), Graz, Austria
03 / 2022	SCAN Lab (PI: Stephane De Brito), Centre for Human Brain Health, University of Birmingham, UK (online)
02 / 2022	Neuroeconomics Seminar, Zurich Center for Neuroeconomics, University of Zurich, Switzerland (online)
01 / 2022	Behavioural Science Institute, Radboud University, Nijmegen, The Netherlands
01 / 2022	Brownbag Cognitive Neuroscience Seminar, George Washington University, DC, USA (online)
01 / 2022	School of Psychology, College of Life and Environmental Sciences, University of Birmingham, UK (*Job talk* for an associate professorship) (online)
12 / 2021	Institute of Science and Technology for Brain-Inspired Intelligence (ISTBI), Fudan University, Shanghai, China (online)
10 / 2021	Prediction and Learning Lab (PI: Rebecca Lawson), Department of Psychology, University of Cambridge, UK (online)
10 / 2021	Computational & Mathematical Psychology Lab, Institute for Cognitive and Brain Sciences, Shahid Beheshti University, Tehran, Iran (online)
09 / 2021	Cooperation Colloquia, online talk series on interdisciplinary cooperation research (online)
07 / 2021	Tianqiao and Chrissy Chen Institute (TCCI) Next Question Symposium, "Social cognition and behavior" (online)
06 / 2021	Max Planck Institute for Biological Cybernetics & University of Tübingen, Tübingen, Germany (online)
05 / 2021	Faculty of Psychology and Educational Sciences, Katholieke Universiteit (KU) Leuven, Leuven, Belgium (online)
03 / 2021	Computational psychiatry online journal club (CPoJC)
02 / 2021	Friedman Brain Institute, Icahn School of Medicine at Mount Sinai, New York, NY, USA (*Job talk*; Top-3 shortlist for an assistant professorship) (online)
12 / 2020	State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, China (*Job talk*; Top-3 shortlisted for an associate professorship) (online)
11 / 2020	Center for Brain Disorder & Cognitive Science, Shenzhen University, Shenzhen, China (online)
11 / 2020	Computational Psychiatry Unit (PI: Xiaosi Gu) & Affective Neuroscience Lab (PI: Daniela Schiller), Icahn School of Medicine at Mount Sinai, New York, NY, USA (online)
11 / 2020	School of Psychology & Cognitive Sciences, Peking University, Beijing, China

(online)

08 / 2020	Neural Computing & Control Lab (PI: Quanying Liu), Southern University of Science and Technology, Shenzhen, China (online)
08 / 2020	Institute of Science and Technology for Brain-Inspired Intelligence (ISTBI), Fudan University, Shanghai, China (online)
05 / 2020	Chinese Open Science Network talk series (online)
04 / 2020	Neurochat 2020 Chinese Association for Psychological & Brain Science (online)
01 / 2020	Cognition Academy, Max Planck School of Cognition, Berlin, Germany
11 / 2019	OnNeuro webinar, Ohio State University, OH, USA (online)
10 / 2019	Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
09 / 2019	Decision Neuroscience Lab (PI: Sebastian Gluth), University of Basel, Basel, Switzerland
06 / 2018	Learning & Decision-making Lab (PI: Hanneke den Ouden), Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, The Netherlands
05 / 2018	Neuroeconomics Lab (PI: Jean-Claude Dreher), CNRS, Lyon, France
08 / 2017	Loth Lab (PI: Eva Loth), King's College London, London, UK
06 / 2017	Roche NORD Research Forum, Basel, Switzerland
06 / 2016	Internal seminar at UKE, Hamburg, Germany
08 / 2015	International workshop on Neurobiology of Social Influence, Moscow, Russia

PUBLICATIONS

* = Equal contribution. As of 03/2023: Citation = 1250, H-index = 11 (Google Scholar)

Preprints / under review

Falck, J., **Zhang, L.**, Raffington, L., Mohn, J.J., Triesch, J., Heim, C., & Shing, Y.L. (*in sub*) Longitudinal Changes in Value-based Learning in Middle Childhood: Distinct Contributions of Hippocampus and Striatum.

Zhang, L., Kandil, F.I., Zhao, K., Fu, X., Lamm, C., Hilgetag, C.C., & Gläscher, J. (2022). A causal role of the human left temporoparietal junction in computing social influence during goal-directed learning. *bioRxiv*. DOI: 10.1101/2022.06.13.495824

Kutlikova, H.H.*, **Zhang, L.***, Eisenegger, C., van Honk, J., & Lamm, C. (*under revision*). Testosterone eliminates strategic prosocial behavior through impacting choice consistency in healthy males. Neuropsychopharmacology. DOI: . Preprint: 10.1101/2022.04.27.489681

Zhou, L.*, **Zhang, L.***, Su, Y., & Liang, Z.-Y. (2019). Is zero void? Attentional mechanism of hidden-zero effect in risky decision-making. *PsyArXiv*. DOI: 10.31234/osf.io/pmhsa

Journal articles

21. Kreis, I., **Zhang, L.**, Mittner, M., Syla, L., Lamm, C., & Pfuhl, G. (*in press*). Aberrant uncertainty processing is linked to psychotic-like experiences, autistic traits and reflected in pupil dilation. Cognitive, Affective, & Behavioral Neuroscience. DOI: . Preprint: 10.31219/osf.io/nc2rx

20. Jin, H., Wang, Q., Yang, Y. F., Zhang, H., Gao, M., Jin, S., ..., **Zhang, L.**, Zuo, X.-N., & Chuan-Peng, H. (2022). Chinese Open Science Network (COSN): Building an Open Science community from scratch. *Advances in Methods and Practices in Psychological Science*. DOI: . Preprint: 10.31234/osf.io/ac9by

19. Zhao, Y., **Zhang, L.**, Rütgen, M., Sladky, R., & Lamm, C. (2022). Effective connectivity reveals distinctive patterns in response to others' genuine affective experience of disgust. *NeuroImage*, *259*, 119404. DOI: 10.1016/j.neuroimage.2022.119404. Preprint: 10.1101/2021.09.03.458875

18. Mitter, B., **Zhang, L.**, Bauer, P., Baca, A., & Tschan, H. (2022). Modeling the Relationship between Load and Repetitions to Failure in Resistance Training: A Bayesian Analysis. *European Journal of Sport Science*. DOI: 10.1080/17461391.2022.2089915

17. 't Hart, BM., Achakulvisut, T., …, **Zhang, L.**, …, d'Oleire Uquillas, F., & van Viegen, T. (2022). Neuromatch Academy: a 3-week, online summer school in computational neuroscience. *Journal of Open Source Education*, *5*(49), 118. DOI: 10.21105/jose.00118

16. Geng, H.-Y., Chen, J., Hu, C.-P., Jin, J.-W., Chan, R. C. K., Li, Y., Hu, X.-Q., Zhang, R.-Y., & **Zhang, L.** (2022). Promoting Computational Psychiatry in China. *Nature Human Behaviour*, *6*(5), 615–617. DOI: 10.1038/s41562-022-01328-4

15. Zhou, L., Zou, T., **Zhang, L.**, Zhang, Y. Y., & Liang, Z.-Y. (2021). "Carpe diem?": Disjunction effect of incidental affect on intertemporal choice. *Frontiers in Psychology*, 5896. DOI: 10.3389/fpsyg.2021.782472

14. Schmalz, X., Manresa, J., & **Zhang, L.** (2021). What is a Bayes Factor? *Psychological Methods*. DOI: 10.1037/met0000421. Preprint: 10.31219/osf.io/vgqbt

13. Joue, G., Chakroun, K., Bayer, J., Gläscher, J., **Zhang, L.**, Fuss, J., Hennies, N., Sommer, T. (2021). Sex differences and exogenous estrogen influence learning and brain responses to prediction errors. *Cerebral Cortex*, *32*(9), 2022–2036. DOI: 10.1093/cercor/bhab334

12. Zhao, Y., **Zhang, L.**, Rütgen, M., Sladky, R., & Lamm, C. (2021). Neural dynamics between anterior insular cortex and right supramarginal gyrus dissociate genuine affect sharing from perceptual saliency of pretended pain. *eLife*, *10*, e69994. DOI: 10.7554/eLife.69994, Preprint: 10.1101/2021.04.30.441951

11. Yao, Y.-W., Chopurian, V., **Zhang, L.**, Lamm, C., & Heekeren, H. (2021). Effects of non-invasive brain stimulation on visual perspective taking: A meta-analytic study. *NeuroImage*, *242*, 118462. DOI: 10.1016/j.neuroimage.2021.118462, Preprint: s10.1101/2021.04.24.441219

10. Kreis, I., **Zhang, L.**, Moritz, S. & Pfuhl, G. (2021). Spared performance but increased uncertainty in schizophrenia: Evidence from a probabilistic decision-making task. *Schizophrenia Research*, *243*, 414–423. DOI: 10.1016/j.schres.2021.06.038, Preprint: 10.31219/osf.io/qaupb

9. Zhao, Y., Rütgen, M., **Zhang, L.**, & Lamm, C. (2021). Pharmacological fMRI provides evidence for opioidergic modulation of discrimination of facial pain expressions. *Psychophysiology*, *58*(2), e13717. DOI: 10.1111/psyp.13717. Preprint: 10.31234/osf.io/uj75y

8. Crawley, D.*, **Zhang, L.***, Emily, J., …, den Ouden, H., Loth, E., & the EU-AIMS LEAP group (2020). Modeling cognitive flexibility in autism spectrum disorder and typical development reveals comparable developmental shifts in learning mechanisms. *PLOS Biology*, *18*(10), e3000908. DOI: 10.1371/journal.pbio.3000908. Preprint: 10.31234/osf.io/h7jcm

7. **Zhang, L.**, Gläscher, J. (2020). A brain network supporting social influences in human decision-making. *Science Advances*, *6*(34), eabb4159. DOI: 10.1126/sciadv.abb4159. Preprint: 10.1101/551614. [**Featured** by: Soltani, A. (2020). Learning from Others, but with What Confidence? *Trends in Cognitive Sciences*. *24*(12), 963–964. DOI: 10.1016/j.tics.2020.09.011]

6. **Zhang, L.***, Lengersdorff, L.*, Mikus, N., Gläscher, J., & Lamm, C. (2020). Using reinforcement learning models in social neuroscience: frameworks, pitfalls, and suggestions of best practices. *Social Cognitive and Affective Neuroscience*, *15*(6), 695–707. DOI: 10.1093/scan/nsaa089. Preprint: 10.31234/osf.io/uthw2

5. Botvinik-Nezer, R., Holzmeister, F., Camerer, C. F., …, **Zhang, L.**, …, Nichols T. E., Poldrack, R. A., Schonberg T. (2020). Variability in the analysis of a single neuroimaging dataset by many teams. *Nature*, *582*, 84–88. DOI: 10.1038/s41586-020-2314-9. Preprint: 10.1101/843193

4. Bayer, J., Rusch, T., **Zhang, L.**, Gläscher, J., & Sommer, T. (2020). Dose-dependent effects of estrogen

on prediction error related neural activity in the nucleus accumbens of healthy young women. *Psychopharmacology*, *237*(3), 745–755. DOI: [10.1007/s00213-019-05409-7](#)

3. Zhou, L., Li. AM., **Zhang, L.**, Li, S., & Liang, Z.-Y. (2019). Similarity in processes of risky choice and intertemporal choice: The case of certainty effect and immediacy effect. *Acta Psychologica Sinica*. *51*(3), 337–352. DOI: [10.3724/SP.J.1041.2019.00337](#)

2. Hu, Y., He, L.*, **Zhang, L.***, Wölk, T., Dreher, J. C., & Weber, B. (2018). Spreading inequality: Neural computations underlying paying-it-forward reciprocity. *Social Cognitive and Affective Neuroscience*, *13*(6), 578–589. DOI: [10.1093/scan/nsy040](#)

1. Ahn, W.-Y., Haines, N., & **Zhang, L.** (2017). Revealing neurocomputational mechanisms of reinforcement learning and decision-making with the hBayesDM package. *Computational Psychiatry*, *1*, 24–57. DOI: [10.1162/CPSY_a_00002](#). Preprint: [10.1101/064287](#)

Conference proceedings

2. **Zhang, L.**, Kandil, F., Hilgetag, C.C., & Gläscher, J. (2019). The causal role of temporoparietal junction in computing social influence in human decision-making. *Cognitive Computational Neuroscience (CCN 2019)*. Berlin, Germany. DOI: [10.32470/CCN.2019.1120-0](#)

1. **Zhang, L.**, Martínez, A., & Salillas, E. (2014). Brain potentials reveal audiovisual integration in bilinguals on arithmetic fact retrieval. *Proceedings of the* 2014 *IEEE International Conference on Multisensor Fusion and Information Integration for Intelligent Systems (MFI), pp. 1–6*. DOI: [10.1109/MFI.2014.6997702](#)

Commentaries, books & book chapters

4. **Zhang, L.**, Gläscher, J. (*forthcoming*). Social influence in human decision-making, in Oxford Research Encyclopedia of Neuroscience. Oxford University Press. Oxford, UK. (chapter invited).

3. **Zhang, L.** (2022). Examining mental disorders with cognitive computational neuroscience. *Nature Reviews Psychology*. DOI: [10.1038/s44159-022-00131-2](#)

2. **Zhang, L.**, Redžepović, S., Rose, M., & Gläscher, J. (2018). Zen and the Art of Making a Bayesian Espresso. *Neuron*, 98(6), 1066–1068. DOI: [10.1016/j.neuron.2018.06.023](#)

1. Zheng, X., **Zhang, L.**, & Jiang, W. (2016). Health psychology. China Light Industry Press. Beijing, China. [Book translation of Brannon, L., Feist, J., & Updegraff, J. (2013). Health psychology: An introduction to behavior and health. United States: Cengage Learning.]

CONFERENCE PRESENTATIONS (SELECTION)

* = Equal contribution

Zhang, L., Kandil, F., Hilgetag, C.C., & Gläscher, J. (2021). The left temporoparietal junction causally supports goal emulation in human observational learning. *Poster to be presented at the Society for Neuroscience Global Connectome (SfN Global Connectome)*, online.

Zhang, L., Hartmann, H., Rütgen, R., & Lamm, C. (2021). Representational patterns in human visual cortex and their representational connectivity during empathic responses to picture-based pain. *Poster to be presented at International Association for the Study of Pain (IASP) World Congress on Pain* (cancelled due to Covid-19). Amsterdam, the Netherlands.

Zhang, L., Gläscher, J. (2020). Neurocomputational mechanisms of social influence in goal-directed learning. *Talk presented at Neuromatch Conference 2020 (neuromatch.io)*.

Zhang, L., Kandil, F., Hilgetag, C.C., & Gläscher, J. (2019). The causal role of temporoparietal junction in computing social influence in human decision-making. *Poster presented at Symposium on "Biology of Decision Making (SBDM)*. Oxford, UK.

Zhang, L., Gläscher, J. (2018). Neurocomputational mechanisms of social influence in goal-directed learning. *Poster (poster spotlight) presented at FENS Spring Brain Conference: Computational*

Neuroscience of Prediction. Rungstedgaard, Denmark.

Zhang, L., Hipp, J., Taylor, K., Chatham, C., & Bolognani, F. (2017). Age-binned normalization of Vineland™-II increases variability in standard scores: Implications for clinical trials in Autism Spectrum Disorder (ASD). *Poster presented at The International Meeting for Autism Research (IMFAR)*, San Francisco, CA, USA.

Zhang, L., Gläscher, J. (2015). Modeling social influence on human decision-making with reinforcement learning theory: A Bayesian perspective. *Poster presented at the Society for Neuroscience Annual meeting (SfN 2015)*, Chicago, IL, USA.

Zhang, L., Gläscher, J. (2014). Reinforcement learning signals of social influence on human decision-making. *Poster presented at the Bernstein Conference 2014*, Göttingen, Germany.

Zhang, L., Martínez, A., & Salillas, E. (2014). The role of finger-based number representations in online arithmetic facts retrieval. *Poster presented at the 20th Annual Meeting of the Organization for Human Brain Mapping (OHBM)*, Hamburg, Germany.

TEACHING

since 2023	**Proposing Research in Psychology** Advanced module (master's level). UoB, UK
since 2023	**Computational Summer school on Modeling Social and collective behavior** (COSMOS), 4-day summer school, Core course faculty member
since 2021	**Cognitive Modeling Academy Hamburg** (CMAH), 6-day summer school Core course faculty member, on topics of hierarchical (Bayesian) modeling, model development, model validation
2020	**Advanced Data Analysis** Theory and empirical research (Mind and Brain track; master's level; 8 ETCS). UNIVIE, Vienna, Austria
2019–2020	**Experimental Design and Statistics** Introductory course for first-year PhD students. Max Planck School of Cognition, Leipzig, Germany
2019–2022	**Biological Basis of Experience and Behavior: Decision Neuroscience** Introductory seminar (bachelor's level; 6 ETCS). UNIVIE, Vienna, Austria
2019–2022	**Bayesian Statistics and Hierarchical Bayesian Modeling for Psychological Science** (available on [YouTube](#)) Advanced seminar (master's level; 4 ETCS). UNIVIE, Vienna, Austria
since 2016	**Workshop on Bayesian statistics and Bayesian cognitive modeling** 2022: Goethe University Frankfurt, Germany; Max Planck School of Cognition, Berlin, Germany • 2019: Peking University, Beijing, China; Nanjing University, Nanjing, China; UNIVIE, Vienna, Austria • 2018: UiT, Tromsø, Norway; CNRS, Lyon, France • 2016–2021: UKE, Hamburg, Germany
2018	**Workshop on Reinforcement learning: From theory to implementation** UiT, Tromsø, Norway
2017	**Tutorial on Modeling reinforcement learning and decision-making tasks with the hBayesDM package** King's College London, London, UK
2014	**Workshop on Intro2Matlab for psychologists** Institute of Psychology, Chinese Academy of Science, Beijing, China

PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

2022-*present*	Association for Psychological Science (APS)
2021-*present*	Society for Social Neuroscience (S4SN)
2020–2021	Social & Affective Neuroscience Society (SANS)
2020–2021	International Association for the Study of Pain (IASP)
2020–2021	Society for the Improvement of Psychological Science (SIPS)
2020	Cognitive Science Society (CSS)
2018–2022	European Society for Cognitive and Affective Neuroscience (ESCAN)
2014–2017	Bernstein Association for Computational Neuroscience
2015, 2020	Society for Neuroscience (SfN)
2014	Organization for Human Brain Mapping (OHBM)
2014–*present*	European Society of Social and Affective Neuroscience (ESSAN)
2013	Society for the Neurobiology of Language (SNL)

TECHNICAL SKILLS

Programming	R, Stan, Matlab, Python, JAGS, and Shell scripting
Software Skills	hBayesDM, SPM, FSL, Cogent, Psychophysics Toolbox, Microsoft Certified Application Specialist (MCAS) in Microsoft Word 2007, Google Power Searcher, Windows OS, Linux OS, Mac OS, and HPC Cluster