TARANA NIGAM

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EDUCATION

2019- now Thesis:	PhD in Neuroscience International Max Planck Research School for Neurosciences, Georg-August University, Göttingen <i>Feedback as the way forward: Sensory predictions in primate face processing hierarchy</i> Dr. Caspar Schwiedrzik; German Primate Center and the European Neuroscience Institute - Göttingen, Germany
2017 - 2019	MSc in Neuroscience International Max Planck Research School for Neurosciences, Georg-August
Thesis:	University, Göttingen Gaze and dyadic interactions in social-decision making in monkeys & humans Dr. Sebastian Moeller, Igor Kagan, Alexander Gail; German Primate Center, Göttingen
2013- 2017	B.Tech. in Biotechnology
Thesis:	VIT University, Vellore Institute of Technology, Vellore, India Adult Hippocampal Neurogenesis: Molecular regulation and implications on spatial memory Dr. Hiyaa Ghosh; National Centre for Biological Sciences, Bengaluru, India

PUBLICATIONS

- 1. **Nigam, T.**, Schwiedrzik, C.M. (2023), Predictions enable top-down pattern separation in the macaque face-processing hierarchy. https://doi.org/10.1101/2023.10.02.560497
- 2. Caruso, N., Zimmermann, A., **Nigam, T.,** Becker, C., Lipson, K., Helmbacher, F. (2022), An intragenic FAT1 regulatory element deleted in muscular dystrophy patients drives muscle and mesenchyme expression during development. https://doi.org/10.1101/2022.09.14.507898
- 3. **Nigam, T.**, Schwiedrzik, C.M. (2022), High-level prediction signals cascade through the macaque faceprocessing hierarchy, Peer-Reviewed Conference Proceedings of Computational and Systems Neuroscience (COSYNE) 2022
- Lehr, A., Henneberg, N., Nigam, T., Paulus, W., & Antal, A. (2019). Modulation of Conflict Processing by Theta-Range tACS over the Dorsolateral Prefrontal Cortex. *Neural plasticity*, 2019, 6747049. https://doi.org/10.1155/2019/6747049

RESEARCH EXPERIENCE

July - Sep, 2022	Sensory predictions in the macaque face-processing network using fMRI Dr. Winrich Freiwald, The Rockefeller University, New York, USA
0.1	Gaze and dyadic interactions in social decision making in primates
Oct 2018 - Apr 2019,	Drs. Sebastian Moeller, Igor Kagan, Alexander Gail, German Primate Center, Göttingen
Арі 2019,	Role of temperature and TRPV1 channel on sharp-wave ripples in hippocampus
May - July	Dr. Camin Dean, European Neuroscience Institute, Göttingen
2018	
	Effect of transcranial alternating current stimulation (tACS) on conflict
Jan –	processing using conflict-based decision making models
March 2018	Dr. Andrea Antal, University Medical Center, Göttingen
	Effect of stress & glucocorticoid receptor in prefrontal cortex on task switching
June - Aug	Dr. Francois Tronche, University Pierre et Marie Curie, Paris, France
2016	
	Tissue-specific expression of a modified gene enhancer implied in muscular
June - July	dystrophy in mice embryos
2015	Dr. Francoise Helmbacher, Aix-Marseille University, Marseille, France



CONFERENCES ORGANIZED

May 2021- June 2022;	Neurizons 2022 – Conference, Max Planck Institute for Multidisciplinary Sciences, Göttingen Main role: <u>General coordinator, leading multiple teams</u> , inviting speakers, organizing career fair, workshops and acquiring funds through Boehringer Ingelheim Foundation
May 2019 – May 2022	Neurizons 2020 – Conference, Multidisciplinary virtual neuroscience conference, Max Planck Institute for Biophysical Chemistry, Göttingen Main role: Leading the panel discussion team- Natural vs Artificial Intelligence, inviting speakers
Oct 2018- Sep 2019	Horizons in Molecular Biology Conference, Max Planck Institute for Biophysical Chemistry, Göttingen Main role: Co-moderated the panel discussion with <u>Prof. Mary Osborn</u> on mental health awareness, <u>work-life balance</u> in academia and science communication; Acquiring funds for conference organization
TALKS	
Sep 2022	The Rockefeller University, New York, USA (Dr. Winrich Freiwald)

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Aug 2022	Princeton Neuroscience Institute, Princeton University, USA (Dr. Timothy Buschman)
Aug 2022	Brain and Cognitive Sciences, Massachusetts Institute of Technology (MIT), USA (Dr. Mehrdad Jazayeri)
Aug 2022	Neuroscience Institute, NYU Langone Health, New York University, USA (Dr. Jayeeta Basu)
Apr 2020	Intracranial Electrophysiology Symposium, University Medical Center Goettingen, Germany

GRANTS AND FELLOWSHIP AWARDS

May 2022	Outgoing Fellows Grant from The Leibniz ScienceCampus Primate Cognition for Exchange Program at The Rockefeller University, New York, USA
Dec 2021	Grant for organizing scientific conference awarded by Boehringer Ingelheim Foundation (Amount: 5700 €) Applied along with Delane Espinueva (as a part of Neurizons organizing team) for supporting junior scientists, speakers at the Neurizons 2022 conference with the aim to <i>promote inclusivity and diversity in</i> <i>academia</i> .
July 2019	Full financial support award from Cold Spring Harbor Asia for Cognitive and Computational Neuroscience Summer School, Suzhou, China
June 2019	Full financial support award from National Institute of Mental Health (USA) and Wellcome Burroughs Funds for Cellular, Computational and Cognitive Neuroscience Summer Program- Princeton Neuroscience Institute, USA
June 2018	Travel award from Abcam- Adult Neurogenesis Conference, TU Dresden, Germany
Sep 2017 – May 2019	Scholarship from International Max Planck Research School (IMPRS), Germany for Masters in Neuroscience
June - Aug 2016, June - Aug 2015	Scholarship from Centre National de la Recherche Scientifique (CNRS), France for summer research internships
June 2015	Accepted for Summer Research Fellowship of Indian Academy of Sciences (declined)
2009	Young environmentalist award, Regional Museum of Natural History, Government of Madhya Pradesh, India

ADDITIONAL TRAINING & CONFERENCES

March 2023	Poster Presentation- Primate Neurobiology Meeting, 2023, Goettingen
Nov 2022	Poster Presentation- Society for Neuroscience Meeting, 2022, San Diego, USA
March 2022	Dorothea Schlözer Mentoring Program for young women scientists (1 year program)
March 2022	Poster Presentation - Computational and Systems Neuroscience (COSYNE) 2022, Lisbon and Cascais, Portugal
March 2021	Poster Presentation - 14th Göttingen Meeting of the German Neuroscience Society
Nov 2019	Blackrock Microsystems European Hands-on Electrophysiology Workshop, Göttingen
July 2019	Cognitive and Computational Neuroscience Summer School, Cold Spring Harbor Asia, Suzhou, China
June 2019	Cellular, Computational and Cognitive Neuroscience Summer Program, Princeton Neuroscience Institute, Princeton, USA
May 2019	ELECTRAIN - Extended Methods Course in Electrophysiology, European Neuroscience Institute, Göttingen, Germany

TEACHING EXPERIENCE

Dec 2022;	Invasive electrophysiology in humans
Dec 2021;	Tutor for methods course for MSc IMPRS Neuroscience program
Dec 2020;	Instructor: Dr. Caspar Schwiedrzik
Nov 2019	

SCIENCE COMMUNICATION/OUTREACH

July 2022; Jan 2019	Night of Science, Göttingen - Along with Cognitive Neuroscience Department at the German Primate Center, Göttingen
Dec 2019	Invited Talk: Cognitive Neuroscience and Career-based Interaction Session for Bachelor and Graduate-level students in Cognitive Science and Psychology at Dayalbagh Educational Institute, Agra, India
Oct 2019	Science goes City, Göttingen - Science Speed-Dating event organized by the Göttingen Campus Postdoc Network Role: Headed a team of fellow artists; Made minimalist sketches to explain research projects of ~20 scientists from various scientific and humanities fields to general public

LANGUAGES

English (Bilingual proficiency), Hindi (Bilingual proficiency), German (B1), French (beginner)

HOBBIES AND INTERESTS

Painting, Calligraphy, Swing Dance, Badminton, Astrophysics, Improv Theatre