

NIKET AGRAWAL

Language and Cognition Lab, Department of Cognitive Science, IIT-Kanpur

niket_cct@outlook.com ■ +91.96805.58313 ■ [niket-agrawal.github.io](https://github.com/niket-agrawal)

EDUCATION

Centre for Converging Technologies, University of Rajasthan, Jaipur 2014 - 2019
Dual-degree majors in Cognitive Neuroscience (B.Tech + M.Tech) GPA: 5.88/6.00

- Thesis - *Hemispheric lateralization during perception of emotions*
- Nanotechnology (minors)
- Biotechnology and ICT (bacalaureate)

All India Central Board of Secondary Education 2011 – 2013
Higher School Certificate Examination Percentage: 88%

EXPERIENCE

PRIDE (Premium for Adolescents) mental health project Aug 2021 – present
Sangath (Dr. Sonal Mathur)

- Supported in creation of research materials and documents
- Contributed to content creation for digital course, conducted user testing
- Gained experience in qualitative data collection, coding and analysis (interviews, FGDs)
- Planned and conducted trainings for field teams

Emotion perception, cognition and motivation project Jan 2020 – Jan 2021
Indian Institute of Science, Bangalore (Dr. Srikanth Padmala)

- Explored cognitive control mechanisms during emotion perception and reward processing
- Studied interplay of emotions and attentional breadth by using Navon's task
- Designed psychophysical, behavioural and scanner tasks
- fMRI study design and functional data analysis

Laterality and language project Apr 2019 – Jan 2020
Indian Institute of Technology, Kanpur (Dr. Ark Verma)

- Compared models of lateralization during perception of emotions, using visual half field studies
- Created pilot lexical proficiency tests in Devanagari (Hindi)
- Designed GUI based pseudo-word generator based on bigram frequency
- Optimized the experiment for Hindi - English eye tracking corpus

360° spatial cognition project Aug 2017 – Nov 2017
IIIT-Hyderabad (Dr. Priyanka Srivastava)

- Design and conduction of the experiment in spatial navigation tasks (360-degree VR)
- Collection and analysis of data comparing head mounted display with monitors

SKILLS

Experiment design: PsychoPy and Pavlovia, Psychtoolbox-3, jsPsych, E-Prime
Electrophysiology: Eyelink-1000plus, EEG, BioPac
Data analysis/ stats: R, IBM-SPSS, JASP, pandas
fMRI packages: AFNI, FSL, ROBEX, FreeSurfer, BrainSuite, ANTs, SPM12
Programming: C, C++, JAVA, Python, MATLAB, Haskell, LaTeX
Web-designing: HTML, PHP, CSS, Javascript, MySQL, web-hosting

PRESENTATIONS

ACCS - Annual Conference for Cognitive Sciences Lateralization during perception of emotions: comparison of different models (<i>poster</i>)	2019
EuroVR – Europe Virtual Reality Comparative evaluation of display mode i.e. Desktop and Virtual Reality, on 360° local area and local situation awareness (<i>poster</i>)	2017
ReRise, Rise with the Sun Sustainable and green living solutions (<i>oral</i>)	2016
Website building , Projects management system (<i>oral and demo</i>)	2015
RAPO - Recent Advances in Photonics and Optics Research review in nano-photonics & applications (<i>poster</i>)	2015

RELEVANT COURSEWORK

Cognitive Neuroscience: Philosophy of mind, Developmental neuroscience, Brain mapping & imaging, Sensation & perception, Dynamical systems, Psycholinguistics, Psychiatric & Neurological disorders, Clinical neuroscience
Information Technology: Quantum computing, Data structures & algorithms, Linux, Network security & cryptography, TCP/IP
Biotechnology: Biochemistry, Bioinformatics, Genetic engineering, Microbiology and Molecular-biology, Cellular biology, Metabolic engineering
Nanotechnology: Quantum mechanics, Nanophotonics, Nanoelectronics, Molecular spectroscopy, Semiconductor physics, Material science

WORKSHOPS/ CONFERENCES ATTENDED

BCL– Brain Computation and Learning , IISc-Bangalore (<i>workshop</i>)	2019
NLP and Big Data for Psycholinguistics , IIT-Kanpur (<i>workshop</i>)	2018
Psychology for Health: Sustainable Living , University of Rajasthan (<i>conference</i>)	2017
ICEGOV, Building Knowledge Societies–From Digital Government to Digital Empowerment , New Delhi (<i>conference</i>)	2017
Quantum Communications , MNIT-Jaipur (<i>workshop</i>)	2016
Nanomaterials and its applications , MNIT-Jaipur (<i>short term course</i>)	2016

POSITIONS OF RESPONSIBILITY

Short term course , Conducted eye-tracking workshop sessions in <i>Brain Inspired Robotics</i> held at IIT-Kanpur	Nov-2019
Teaching Assistant , Mentored 3 students in their final semester masters project work in <i>Cognitive Science</i> at, University of Rajasthan	2019-20
Leader & Co-ordinator , Initiated formation of peer-learning Student Growth Community in college and organized workshops, academic events consistently	2018-20

REFERENCES

Dr. Ark Verma

Assistant Professor of Psychology,
Department of Cognitive Science,
IIT-Kanpur

e-mail: arkverma@iitk.ac.in,

phone: +91 512-259 6847 (O)

Dr. Srikanth Padmala

Assistant Professor,
Centre for Neuroscience,
IISc-Bangalore

e-mail: spadmala@iisc.ac.in,

phone: +91 80 2293 3435 (O)