

# Niket Agrawal

Masters in Cognitive Neuroscience

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🌐 <http://niket-agrawal.github.io/resume/>

## RESEARCH EXPERIENCE

01/ 2020 – ongoing

Project Associate (Dr. Srikanth Padmala, PhD)

**Indian Institute of Science, Bangalore**

- Exploring cognitive control mechanisms during emotion perception and reward processing
- Studying interplay of emotions and attentional breadth by using Navon's task
- Used *PsychoPy* to create behavioural and scanner tasks
- Duties still evolving but will include aspects of fMRI including scanning and image data analysis

04/ 2019 – 01/ 2020

Master's Thesis Student (Dr. Ark Verma, PhD)

**Thesis Title: Hemispheric lateralization in perception of emotions**

**Indian Institute of Technology, Kanpur**

- Compared different models of lateralization during perception of emotions, using visual half field studies
- Created pilot lexical proficiency tests in Devanagari (*Hindi*)
- Optimized the experiment for Hindi - English eye tracking corpus

06/ 2017 – 11/ 2017

Research Project Student (Dr. Priyanka Srivastava, PhD)

**International Institute of Information Technology, Hyderabad**

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

## EDUCATION

2014–2019

Dual Degree in Cognitive Neuroscience (B.Tech + M.Tech)

**CGPA – 5.88 / 6.00 (Percentage – 94%)**

**Centre for Converging Technologies, University of Rajasthan, Jaipur (India)**

- **Cognitive Neuroscience** (Majors)
- **Nanotechnology** (Minors)
- Information Technology (baccalaureate)
- Biotechnology (baccalaureate)

2011–2013

Higher School Certificate Examination

Class 11th and 12th

**Percentage – 88%**

2009–2011

Secondary School Certificate Examination

Class 9th and 10th

**CGPA – 9.2 / 10.0**

**All India Central Board of Secondary Education**

## RELEVANT COURSEWORK

Cognitive Neuroscience

- Introductory Cognitive Science
- Developmental Neuroscience
- Sensation and Perception
- Clinical Neuroscience
- Psychiatric and Neurological disorders
- Neurotoxicology
- Brain Mapping and Imaging
- Dynamical Systems for Neuroscience
- Psycholinguistics
- Cognitive Neurology

Information Technology

Quantum Computing, TCP/IP, Data Structures and Algorithms, Linux, C, C++, MATLAB

Biotechnology

Biochemistry, Bioinformatics, Genetic Engineering, Micro Bio and Molecular Biology

Nanotechnology

Quantum Mechanics, Nano-photonics, Nano-electronics, Spectroscopy Techniques, Materials Science

## PRESENTATIONS

2019

**ACCS**, 6th Annual Conference for Cognitive Sciences

Poster Presentation

BITS Pilani, Goa

2017

**EuroVR**, Comparative Evaluation of Display Mode i.e. Desktop and Virtual Reality, on 360-degree local area and local situation awareness

Poster Presentation

2016

**ReRise: Rise with the Sun**, Sustainable and Green Living Solutions

Oral Presentation

2015

**Website Building**, Project Management System

Demonstration and Oral

## JOURNEY TOWARDS

### RESEARCH EXPERIENCE

2019

**BCL – Brain Computation and Learning**

Workshop

IISc, Bangalore

2018

**NLP and Big Data for Psycholinguists**

Conference

IIT-Kanpur

2017

**IAAP**, 52nd National Conference of Indian Academy of Applied Psychology

Conference

Psychology for Health: Sustainable Living, University of Rajasthan

2017	<b>ICEGOV</b> , 10th International Conference on Theory and Practice of Electronic Governance, "Building Knowledge Societies – From Digital Government to Digital Empowerment", New Delhi, India	Conference
2016	<b>Quantum Communications</b> MNIT, Jaipur	Workshop

#### TECHNICAL SKILL-SET

Python & R	Used for experimental design and data analysis ( <i>PsychoPy, NumPy, matplotlib, tkinter</i> )
Software Packages	E-Prime, Pavlovia, MATLAB, Fantamorph, CogLab for stimuli presentation IBM-SPSS for data analysis
BIOPAC & EyeLink	Used these systems for designing the physiological responses during experiment.
EEG	Just have working knowledge of these such as removal of artefacts and electrode placements.
Others	Chromatographic Techniques including HPLC and UV-Vis Spec, Nano-drop Spectrophotometer, SEM

#### EXTRACURRICULAR ACTIVITIES

Communication Skills	Gained excellent communication and persuasion skills during conduction of surveys and interviews
Languages Known	Hindi (mother tongue), English
Sports and Hobbies	Swimming, Table-Tennis, Sketching and ABACUS
Personal Skills	Focused, goal-oriented, effective time and task manager, patient listener, punctual
Winter Training	Selected among the 40 students from all India in <b>SERB School: Plasma Devices Training Programme</b> sponsored by <b>Department of Science and Technology, India</b>

#### POSITIONS OF RESPONSIBILITY

Workshop	Conducted <b>eye-tracking workshop</b> sessions in Brain Inspired Robotics STC held at IIT-Kanpur
Leader & Co-ordinator (2018-Current)	Initiated formation of first peer-learning <b>Student Growth Community</b> in my college and organized workshops, academic events consistently
Teaching Assistant	Mentored 3 students in their final semester experimental project work in Cognitive Science Course

#### REFERENCES

References are available on request.