

PRIYANKA SRIVASTAVA, PI

Perception and Cognition Group



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RESEARCH

Perception and Cognition, Spatial Perception, Virtual Experience, Auditory Representation of Space, Creative Cognition, Individual Differences, Non-cognitive determinants

INTERESTS

INSTITUTE

Contributing as an Institute Counseling Coordinator: developing a Mental Health program in collaboration with professional Counselors and Psychiatrists ., Creating student team to support mental health of the campus., developed students' aspiration and college campus life experience surveys

PROGRAM

EDUCATION

2011	University of Allahabad Center of Behavioral and Cognitive Sciences PhD, Cognitive Science Advisor: Prof. Narayanan Srinivasan Thesis Title: Time Course of Visual Attention
2005	University of Allahabad, Center of Behavioral and Cognitive Sciences MSc. Cognitive Science Advisor: Prof. Narayanan Srinivasan
2002	University of Allahabad BSc Botany and Chemistry

WORK HISTORY

May 2012 – Present	Senior Research Scientist Cognitive Science Lab International Institute of Information Technology, Hyderabad, India
Jan 2010 – Mar 2012	Post-doctoral Fellow Center for Cognitive Science Technical University of Kaiserslautern, Germany HoD: Prof. Thomas Lachmann

ANNUAL MEETINGS

2017	SESSION CHAIR: Perception and Performance Human Factors and Ergonomic Society JW Marriot Austin, Texas
2015	VISION RESEARCH Defence Institute of Psychological Research, Defence Research and Development Organization, New Delhi, India

INVITED TALKS

2017	Do Male and Female Differ in Making Sense of 2D 360- degrees Virtual Space XXXV Annual Meeting of Indian Academy of Neurosciences Ravenshaw University, Cuttack, Odisha, India
2017	Effect of Gaming on Desktop 360-degrees Field of View Interaction 20 th European Society for Cognitive Psychology Potsdam University, Berlin, Germany

FUNDED PROJECTS, PI

Enhance Vision - Aims to develop human-centered 360-degrees display designs for spatial awareness, and local situation awareness, by evaluating the cognitive and non-cognitive determinants

Supported by –

- [DST-CSRI \(March 2016 – 2019\)](#)
- [INMAS, DRDO \(May 2016-2019\)](#)



DST-CSRI - User-interface evaluation: Eye-tracking while exploring 360-degrees display designs for remote spatial awareness



Desktop VE and VR Headset mode (FOVE)



INMAS, DRDO - Cognitive-ergonomic Profiling, while exploring 360-degree 2D and 3D display designs for local area and local situation awareness

Enhance Virtual Lab Experience: Through the Lenses - Aims to develop a human-centered virtual lab interface for effective and efficient interaction and learning **Supported by** – Virtual Labs, (October 2017-2019) as sub project. Virtual labs, PI Prof. Venkatesh Choppella

2016 Assessment of 360-degrees Local Area Awareness Display Interface
The Silver Jubilee Annual Convention of National Academy of Psychology (NAOP)
University of Allahabad, India

2016 Eye-Movement Study on Evaluation of 360-degrees Visual Interface
Brain Storming Meet on Eye-tracking and Pupillometry: A window into Cognition and Cognitive Disorders, BVRIT, Hyderabad

PEER REVIEWED JOURNAL/ CONFERENCE PROCEEDING _____

2018 Sahu, A., Srivastava, P. (manuscript under preparation) Effect of stimulus response compatibility on displaying 360-degrees visual display on a single screen

2018 Srivastava, P., Vijay, P., Rimzhim, A. (manuscript under preparation) Effect of mode of display on acquiring spatial knowledge.

2018 Srinivasan, N. Srivastava, P., Kant, V. (manuscript under revision) Color influences motion-based figure-ground segregation in camouflaged objects

2018 Rangrej, S., Sivaswami, J., Srivastava, P. (under review) Scan, dwell, decide: strategies for detecting abnormalities in diabetic retinopathy. PLOS ONE.

2018 Singhal, P., Agarwala, A., & Srivastava, P. Do Pitch and Space Share Common Code?: Role of feedback in SPARC effect. Proceedings from Cognitive Science Society (2018).

2017 Vijay, P., Srivastava, P., Agarwal, N. 360-degree Spatial Knowledge: A Comparative Assessment of VR (FOVE) and Desktop 360-Degree Indirect Visual Display, EURO VR 2017, Laval, France

2017 Ravipati, A., and Sahu, A, (accepted for student consortium, Supervised by Srivastava, P.)360-degree desktop vision to INTERACT, 2017

2017 Sahu, A., Vijay, P., and Khambhampaty, S. (accepted for student consortium, Supervised by Srivastava, P.). How Useful 360-degree view is for Local Area Awareness to INTERACT, 2017

2016 Singhal, P., Agarwala, A., & Srivastava, P. Do Pitch and Space Share Common Code? Poster from KogWis 2016

2015 Potluri, V., Rallabandi, S., Srivastava, P., & Prahallad, K. Synthesis of Mathematical Content with Audio Cues. Abstract from CSUN: 30th Annual International Technology and Persons with Disabilities Conference, San Diego, CA

OTHER PROJECTS, PI

- **VR FEEL project:** Aims to evaluate the individual differences in VR experience, perceptual and cognitive adaptability and its relation with Empathy.
- **Creative Cognition:** Aims to evaluate the role of mental representation in creative thinking and its relations with abstract thinking
- **Sight Without Light:** Aims to develop audio-based navigation aid for visually impaired population to develop cognitive map for comparatively effect navigation
- **Media and Perception:** Aims to evaluate the role of text media on stress, cognitive bias, decision making and perception

OTHER PROJECTS, Co-PI

- **Empathy and Rape Perception: Co PI (PI – Kavita Vemuri, Cognitive Science lab, IIIT H, India):** Aims to investigate the behavioral, and neurological network of social perception for rape victims. **DST- CSRI (2018 – 2021)**

REVIEW

- CHI - Computer Human Interaction (2016 – Present)
- Human Factors and Ergonomic Society (2016 – Present)
- Frontiers in Psychology (2016- Present)
- Human Computer Interaction (Xerox, 2014)

SOCIETY

- Cognitive Science Society, US
- Association for Computing Machinery, US
- Human Factors and Ergonomic Society, US
- Vision Science Society, US
- European Society of Cognitive Psychology, Europe
- indian Academy of Neuroscience, IAN

FELLOWSHIP

- Post-doctoral Fellowship, Cognitive Science Lab Technical University of Kaiserslautern, Germany 2010 – 2012
- Doctoral Fellowship, Center of Behavioral and Cognitive Sciences, University of Allahabad, India 2005 – 2009
- International Travel Award, International Society of Psychophysics 2009
- International Travel Award, European Conference on Visual Perception 2008
- Master Merit Scholarship, , Center of Behavioral and Cognitive Sciences, University of Allahabad, India 2004 - 2005

- 2015 Sahu, A., Sharma, P., & Srivastava, P. Measuring Effectiveness of Advertisements - Cognitive Outlook. Proceedings from XRCI 2015: Xerox Research Center India, Bangalore, India
- 2010 Srivastava, P., Kumar, D., & Srinivasan, N. Time course of visual attention across perceptual levels and objects. *Acta Psychologica*, 135, 335-342. (doi:10.1016/j.actpsy.2010.09.001).
- 2009 Srivastava, P., & Srinivasan, N. Time course of visual attention with emotional faces. *Attention, Perception, & Psychophysics*, 72, 369-377
- 2009 Srinivasan, N., Srivastava, P., Lohani, M., & Bajjal, S. Focused and Distributed Attention. *Progress in Brain Research*, 176, 87-100
- 2009 Srivastava, P. & Srinivasan, N. Dynamics of attentional shifts with hierarchical stimuli. Proceedings of 25th Annual Meeting of the International Society of Psychophysics, Galway, Ireland

CURRENT TEACHING

- Introduction to Cognitive Science, IIIT-H Monsoon 2018, 2017, 2014, 2013
- Introduction to Psychology, IIIT-H Monsoon 2018, 2017, 2016
- Introduction to Cognition, IIIT-H Monsoon 2017
- Usability Engineering, IIIT-H Spring 2017, 2016, 2015
- Research Methodology, IIIT-H Monsoon 2016, 2014, 2012 Spring 2014
- Applied Attention Theory, IIIT-H Spring 2014

ACADEMIC SERVICE

- Organized a national symposium on Human Factors ACCS, Association for Cognitive Science, 2017
- Co-organized symposium on Brain Plasticity Indian Academy of Neuroscience 2017, 2016