## ramanujan srinath

Department of Neurobiology · Neuroscience Institute University of Chicago ramsrinath@uchicago.edu · ramsrinath.com

Positions	Post-doctoral Scholar, Cohen Lab, Neuroscience Institute, University of Chicago	2022-now
	Post-doctoral Associate, Cohen Lab, CNBC, University of Pittsburgh	2020-22
	Post-doctoral Fellow, Nielsen and Connor Labs, Johns Hopkins University	2019-20
	Project Assistant, Ray Lab, Center for Neuroscience, Indian Institute of Science	2012-13
	Software Engineer, Philips Healthcare	2011-12
INTERNSHIPS	Project Intern, Honeywell Technology Solutions Lab	2011
	Industrial Trainee, Bharat Electronics Ltd.	2010
	Intern, Manipal Dot Net Ltd.	2009-10
	Industrial Trainee, Tata Communications Ltd.	2009
EDUCATION	PhD, Neuroscience, Johns Hopkins University	2013-19
	Solid Shape Representation in Area V4, Nielsen and Connor Labs	
	Bachelor of Engineering, Manipal Institute of Technology	2007-11
	Electronics and Communication	
GRANTS AND	Outstanding Scholars in Neuroscience Award (NIH-OSNAP)	2022
AWARDS	Life Sciences Research Fellowship (Finalist)	2022
	Life Sciences Research Fellowship (Finalist)	2021
	Manipal University Merit Fellowship (100% tuition waiver)	2007-11
	Erose Educational Infotech Merit Scholarship (cash award)	2002-06
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## **PUBLICATIONS**

Peer Reviewed Srinath, R., Ruff, D.A., and Cohen, M.R. (2021b). Attention improves information flow between neuronal populations without changing the communication subspace, Current Biology (2021), https://doi.org/10.1016/j.cub.2021.09.076

> Srinath, R., Emonds, A., Wang, Q., Lempel, A.A., Dunn-Weiss, E., Connor, C.E., and Nielsen, K.J. (2021a). Early Emergence of Solid Shape Coding in Natural and Deep Network Vision. Curr. Biol. 31, 51-65.e5.

Srinath, R., and Ray, S. (2014). Effect of amplitude correlations on coherence in the local field potential. J. Neurophysiol. 112, 741-751.

Pre-prints Emonds, A.M.X., Srinath, R., Nielsen, K.J., and Connor, C.E. (2022). Object representation in a under review gravitational reference frame. 2022.08.06.503060. https://doi.org/ 10.1101/2022.08.06.503060.

In Prep (writing) Srinath\*, Vistein\*, Daniels, Oshins, Osikpa, Garalde, and Nielsen. Considerations for functional imaging in ferrets using chronic two-photon microscopy. (\* = equal contribution)

(writing) **Srinath**, Nielsen, Connor. Rapid emergence of 3D shape based on color/luminance segregation across biological and artificial networks.

Postdoc work: Simons Collaboration on the Global Brain Symposium Postdoc work: Computational and Systems Neuroscience (CoSyNe)  PhD work: Kanwisher lab, MIT Postdoc interview: Cohen lab, UPitt\(CMU) Postdoc interview: Friewald lab, Rockefeller University Postdoc interview: Tsao lab, Caltech Postdoc interview: Tsao lab, Caltech Postdoc interview: Kiani lab, NYU Postdoc interview: Kiani lab, NYU PhD work: Wille lab, Johns Hopkins Undergrad: Electronics and Communication seminar, Manipal University PhD work: Ville lab, Johns Hopkins Undergrad: Electronics and Communication seminar, Manipal University University of Chicago Neuroscience Institute Retreat Postar Reural basis of flexible generalization in perceptual decision making Gordon Research Conference: Neurobiology of Cognition Reural basis of flexible generalization in perceptual decision making Simons Foundation Sympositum: Abstract shape encoding guides choice behavior in humans and artificial neural networks SRN: A gravitational reference frame for stable vision across head till Co202 SSRN: Solid shape representation in biological and artificial vision Greater Baltimore SRN: Local clustering of 5D shape preference in area V4 SSRN: Clustering of 5D and 2D shape information in area V4 SSRN: Clustering of 5D and 2D shape information in area V4 CO18 SSRN: Clustering of SRN: GCaMP6f nonlinearity using two-photon imaging SSRN: Characterizing GCaMP6f nonlinearity using two-photon imaging SSRN: Characterizing GCaMP6f nonlinearity using two-photon imaging SSRN: Characterizing GCaMP6f nonlinearity using two-photon imaging of ferret V1 Co19 Creater Baltimore SRN: GCaMP6f nonlinearity using two-photon imaging SSRN: Characterizing GCaMP6f no	TALKS	Postdoc work: OSNAP Symposium	2022
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*SfN: Characterizing GCaMP6f nonlinearity using two-photon imaging of ferret V1 2015 *JHU Neuroscience Retreat (* = presenting author)  TEACHING  Teaching Assistant Great Discoveries in Neuroscience, Dr. Jay Baraban Visual Systems, Dr. Stuart Hendry 2016 Structure of the Nervous System, Dr. Stuart Hendry Lectures Neuroscience of Communication, Dr. Leah B. Helou  2017		*SfN: 2D planar vs. 3D volumetric shape processing in area V4	2017
*JHU Neuroscience Retreat 2014-19 (* = presenting author)  TEACHING Teaching Assistant Great Discoveries in Neuroscience, Dr. Jay Baraban 2016/2018 Visual Systems, Dr. Stuart Hendry 2016 Structure of the Nervous System, Dr. Stuart Hendry 2014 Lectures Neuroscience of Communication, Dr. Leah B. Helou 2021		*Greater Baltimore SfN: GCaMP6f nonlinearity using two-photon imaging	2015
TEACHING Teaching Assistant Great Discoveries in Neuroscience, Dr. Jay Baraban Visual Systems, Dr. Stuart Hendry Structure of the Nervous System, Dr. Stuart Hendry Lectures Neuroscience of Communication, Dr. Leah B. Helou  2016 2021		*SfN: Characterizing GCaMP6f nonlinearity using two-photon imaging of ferret V1	2015
TEACHING Teaching Assistant Great Discoveries in Neuroscience, Dr. Jay Baraban Visual Systems, Dr. Stuart Hendry Structure of the Nervous System, Dr. Stuart Hendry Lectures Neuroscience of Communication, Dr. Leah B. Helou  2016 2021		*JHU Neuroscience Retreat	2014-19
Great Discoveries in Neuroscience, Dr. Jay Baraban  Visual Systems, Dr. Stuart Hendry  Structure of the Nervous System, Dr. Stuart Hendry  Lectures  Neuroscience of Communication, Dr. Leah B. Helou  2016/2018  2016  2016  2017  2018  2019  2019  2019  2021		(* = presenting author)	
Visual Systems, Dr. Stuart Hendry 2016 Structure of the Nervous System, Dr. Stuart Hendry Lectures Neuroscience of Communication, Dr. Leah B. Helou 2021	TEACHING	Teaching Assistant	
Structure of the Nervous System, Dr. Stuart Hendry  Lectures  Neuroscience of Communication, Dr. Leah B. Helou  2014  2021		Great Discoveries in Neuroscience, Dr. Jay Baraban	2016/2018
Lectures  Neuroscience of Communication, Dr. Leah B. Helou  2021		Visual Systems, Dr. Stuart Hendry	
Neuroscience of Communication, Dr. Leah B. Helou 2021		Structure of the Nervous System, Dr. Stuart Hendry	2014
Object and scene representation in primate vision, Dr. Stuart Hendry 2016			2021
		Object and scene representation in primate vision, Dr. Stuart Hendry	2016

MENTORSHIP	Graduate students	
	Cohen lab, UPitt - Christian Potter (rotation)	2020-21
	Connor lab, JHU - Qingyang Wang, Allen Chen, Yaqing Ye	2018-20
	Undergraduate students	
	Cohen lab, UChicago - Amelia Orwant	2022-23
	Cohen lab, UPitt - Neha Murthy	2021-22
	Connor lab, JHU - Lydia Carroll, Kevin Peng	2013-15
Professional	Ad-Hoc Peer Review	
SERVICE	Neuron*, Journal of Neurophysiology*, Simons Foundation (* = with PI)	
	Membership	
	Society for Neuroscience	2014-20
	American Physiological Society	2012-15
	International Chair, University of Pittsburgh Postdoctoral Association	2021-22
	Placement officer, ECE	2010-11
	Founder and convener, OpenMicMIT	2009-10
OUTREACH	Skype-a-Scientist	2020-21
	Emily L. Harris, James Clemens High School	
	Mary-Beth Kretz, Toms River High School East	
	Adrienne Atkins, STEMsational Girls Club Foundation	
	Dupont India Whitepaper Challenge	2005
	Genetically Modified Foods: Gold Certificate	
OTHER	Lead actor, Fall MainStage Productions, JHU Barnstormers	2013-15
	Lead actor, Assorted Productions, Dramanon, Manipal	2009-11
	National Cadet Corp	2001-03
	Classical Carnatic violinist	2003-09