# CURRICULUM VITAE

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## EDUCATION & RESEARCH TRAINING

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|---|---|
| 08/2018-present | Postdoctoral Fellow<br>Mentor: Dr. Daniel E. Feldman, UC Berkeley |
| 09/2018 | PhD in Neuroscience, UC Davis<br>Neuroscience Graduate Program (09/2012-09/2018)<br>Mentor: Dr. Leah A. Krubitzer, UC Davis |
| 06/2017-07/2017 | Neural Systems & Behavior Course, Marine Biological Laboratory, Woods Hole, MA |
| 05/2010-08/2012 | Undergraduate Honors & Post-Bac Research<br>Mentor: Dr. Eric I. Knudsen, Stanford University |
| 05/2011 | BS in Biology, *summa cum laude*, Notre Dame de Namur University<br>Notre Dame de Namur University, Belmont, CA (08/2009-05/2011)<br>Stella Maris College, Chennai, India (06/2007-04/2009) |

## HONORS/AWARDS

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| 2020-present | Society for Neuroscience Trainee Professional Development Award (TPDA) |
| 2020-present | NINDS F32 Ruth L. Kirschstein National Research Service Award (NRSA) |
| 2018 | Summer Workshop on the Dynamic Brain, Allen Institute for Brain Science, "Best in Show," student team project |
| 2017 | Ling-Lie Chau Graduate Student Award for Brain Research, UC Davis |
| 2017 | Grass Foundation - Neural Systems & Behavior (NS&B) Course Scholarship, |
| 2015 | UC Davis Graduate Student Assembly Spring Travel Award |
| 2014 | UC Davis Center for Vision Science Travel Fellowship Award |
| 2014 | Barcelona Cognition, Brain and Technology (BCBT) Summer School, second place, student team project |
| 2014-2017 | National Science Foundation Graduate Research Fellowship (NSF GRFP) |
| 2013-2014 | UC Davis NEI Vision Science Training Grant Award |
| 2012-2013 | Neuroscience Graduate Group Block Grant Award, UC Davis |
| 2011 | Outstanding Academic Achievement Award in Biology (Department of Natural Sciences, Notre Dame de Namur University) |
| 2009-2011 | Dean's List, every semester attended at Notre Dame de Namur University |
| 2009-2011 | Belmont Scholarship, two consecutive years at Notre Dame de Namur University |
| 2009-2010 | Palo Alto Medical Foundation Science Scholarship |
| 2007-2009 | Departmental academic proficiency prize, every year attended at Stella Maris College |
| 2008-2009 | Kappa Endowment Merit Scholarship for the second-year student with the best overall academic record (Department of Zoology, Stella Maris College) |
| 2007-2008 | P.K. Ramasubban Merit Scholarship for the first-year student with the best overall academic record (Department of Zoology, Stella Maris College) |
| 2006 | Top 1% statewide in Indian National Biology Olympiad program for high school students (National Standard Examination in Biology, Indian Association of Teachers of Biological Sciences) |

## MANUSCRIPTS

### Peer-Reviewed Publications:

1. **Ramamurthy DL**, Recanzone GH (2020) Age-related changes in intensity coding of onset and offset responses in auditory cortical fields A1 and CL of rhesus macaques. J Neurophysiol. 123(3):1015-1025. doi: 10.1152/jn.00373.2019. *[American Physiological Society APSselect award article]*
2. **Ramamurthy DL**, Krubitzer LA (2018) Neural coding of whisker-mediated touch in primary somatosensory cortex is altered following early blindness. J Neurosci. 38 (27) 6172-6189. doi: 10.1523/JNEUROSCI.0066-18.2018.
3. **Ramamurthy DL**, Recanzone GH (2017) Spectral and spatial tuning of onset and offset response functions in auditory cortical fields A1 and CL of rhesus macaques. J Neurophysiol. 117(3):966-986. doi: 10.1152/jn.00534.2016. *[Faculty of 1000 recommended article]*
4. **Ramamurthy DL**, Krubitzer LA (2016) The evolution of whisker-mediated somatosensation in mammals: sensory processing in barrelless S1 cortex of a marsupial, *Monodelphis domestica*. J Comp Neurol 524(17):3587-3613. doi: 10.1002/cne.24018.
5. Sridharan D, **Ramamurthy DL**, Schwarz JS, Knudsen EI (2014) Visuospatial selective attention in chickens. PNAS 111(19):E2056-65. doi: 10.1073/pnas.1316824111.
6. Sridharan D, **Ramamurthy DL**, Knudsen EI (2013) Spatial probability dynamically modulates visual target detection in chickens. PLOS ONE 8(5): e64136. doi: 10.1371/journal.pone.0064136.

### Preprints/In Review:

1. **Ramamurthy DL**, Dodson HK, Krubitzer LA (2020) Developmental plasticity of texture discrimination following early vision loss in the marsupial *Monodelphis domestica*. bioRxiv. doi: https://doi.org/10.1101/2020.09.05.284554

### In Preparation:

1. **Ramamurthy** DL, Englund MC, Kovacs TJ, Krubitzer LA. Complexity of the rearing environment shapes plasticity of whisker-mediated touch following early blindness.

## ABSTRACTS

1. **Ramamurthy DL**, Feldman DE. Recent trial history cues attentional selection of whisker stimuli in mice. BARRELS XXXIII. Poster. 33rd Annual Barrels Society Meeting, 2020. SfN Satellite Event. Virtual Conference.
2. **Ramamurthy DL**, Englund MC, Krubitzer LA. Alterations in somatosensory receptive fields following early blindness are shaped by the environment. Program No. 764.02. 2018 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2018. Online.
3. **Ramamurthy DL**, Krubitzer LA. Effect of environmental enrichment on somatosensory plasticity in the neocortex following early blindness. Program No. 15.09. 2017 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2017. Online. *[Nanosymposium talk. Highlighted as a Neuroscience 2017 Hot Topic presentation]*
4. **Ramamurthy DL**, Krubitzer LA. Effect of environmental enrichment on somatosensory plasticity in the neocortex following early blindness. BARRELS XXX. Poster. 30th Annual Barrels Society Meeting, 2017. SfN Satellite Event. Baltimore, MD.
5. **Ramamurthy DL**, Krubitzer LA. Receptive fields and response properties of neurons in the S1 whisker representation of early blind short-tailed opossums. Program No. 709.06. 2016 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016. Online.
6. Foreman K, **Ramamurthy D**, Weller C, Krubitzer LA, Stolzenberg DS. Genetic and epigenetic regulation of the cortical phenotype: The effects of early bilateral enucleation on epigenetic and genetic modifications in developing neocortex. Program No. 678.06. 2016 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016. Online.
7. **Ramamurthy DL**, Krubitzer LA. Receptive fields and response characteristics of neurons in the S1 whisker representation of the short-tailed opossum, *Monodelphis domestica*. Society for Neuroscience Annual

Meeting. Chicago, IL. Program No. 516.06. 2015 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2015. Online.

8. Ramamurthy DL, Krubitzer LA. Somatosensory processing in barrelless S1 cortex of a marsupial, *Monodelphis domestica*. 2015 JBJC Meeting. Datablitz. JB Johnston Club for Evolutionary Neuroscience Annual Meeting, 2015. SfN Satellite Event. Chicago, IL.
9. Ramamurthy DL, Gordon AG, Krubitzer LA. Functional topography and tuning properties of neurons in the S1 whisker representation of the short-tailed opossum, *Monodelphis domestica*. Program No. 440.14. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online.
10. Ramamurthy DL, Ng C-W, Gray DT, Overton JA, Recanzone GH. Spectral and spatial tuning of onset and offset responses in the auditory cortex of awake macaque monkeys. Program No. 354.11. 2013 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2013. Online.
11. Ramamurthy DL, Ng C-W, Gray DT, Overton JA, Recanzone GH. Spectral and spatial tuning of onset and offset responses in the auditory cortex of awake macaque monkeys. APAN XI: Program No. 60. Poster. Tucker-Davis Symposium on Advances and Perspectives in Auditory Neuroscience (APAN), 2013. SfN Satellite Event. San Diego, CA.