## Selina Baeza Loya

Curriculum Vitae

Department of Neurol 947 E. 58th St. Chicago IL, 60637	biology, MC-0928	mobile: (520) 576-8493 email: <u>selinabl@uchicago.edu</u> website: <u>selinabaeza.github.io</u>
Education	<b>h.D. candidate, University of Chicago</b> , Neurobiology, 2016-present dvisor: Dr. Ruth Anne Eatock	
	Thesis Project: Impact of Diverse Sodium Currents on Vestibu Expected graduation: June 2022	ilar Ganglion Neuron Spiking
	<b>B.A., Rice University</b> , Cognitive Sciences (Honors) and Span- GPA: 3.71	ish and Portuguese, 2016
Other Education	<b>Neuromatch Academy</b> , three-week intensive online course in July 13-31 <sup>st</sup> , 2020	n computational neuroscience.
Current Support	2019-2022 HHMI Gilliam Fellowship for Advanced Study (\$15	50,000 over 3 years)
Awards and Honors	<ul> <li>2019 Ford Fellowship (declined)</li> <li>2018 Society for Neuroscience, Neuroscience Scholars Program</li> <li>2018 Paul and Daisy Soros Fellowship for New Americans, Fir.</li> <li>2017 Initiative for Maximizing Student Development (IMSD) Conf General Medical Sciences (NIGMS)</li> </ul>	nalist
Original Reports	<b>Baeza Loya, S</b> ., (2021). "Spike timing regularity in vestibular a currents influence sensory encoding mechanisms". Journal of N	
	<b>Baeza-Loya, S</b> ., Velasquez, K.M., Molfese, D.L., Viswanath, H Lake, D.G.Y., Baldwin, P.R., Ellmore, T.M., De La Garza, R. a cingulum white matter is altered in tobacco smokers". The Am 25(3), pp.210-214.	and Salas, R., (2016). "Anterior
	<b>Baeza-Loya, S.,</b> Viswanath, H., Carter, A., Molfese, D.L., Vela Thompson-Lake, D.G., Sharp, C., Fowler, J.C., De La Garza, F "Perceptions about e-cigarette safety may lead to e-smoking due the Menninger Clinic, 78(3), pp.243-252.	R. and Salas, R., (2014).
Academic Research	<ul> <li>University of Chicago, Advisor: Dr. Ruth Anne Eatock, prese</li> <li>Department of Neurobiology, Biological Sciences Division</li> <li>Investigating the contributions of sodium current dive</li> <li>waveforms and firing patterns of vestibular afferent neurophysiology</li> </ul>	ersity to action potential
	• Modeling impact of different ionic currents on spike to compartment conductance-based formulations in MAT	
	<b>Baylor College of Medicine</b> , Advisor: Dr. Ramiro Salas, 2013 Menninger Department of Psychiatry and Behavioral Sciences	

Menninger Department of Psychiatry and Behavioral Sciences

	<ul> <li>Developed relational analysis using PGMRA web server for psychiatric data and neuroimaging (fMRI) data in patients with major depressive disorder</li> <li>Determined relationship of altered cingulate cortex anatomical connectivity with comorbid major depressive disorder and substance abuse disorder in clinical patients</li> <li>Analyzed anterior cingulate cortex diffusion tensor imaging connectivity in patients with nicotine, cocaine, and alcohol addiction</li> <li>Investigated perceptions regarding e-cigarettes and e-cigarette smoking during pregnancy</li> </ul>
	<ul> <li>Duke University, Advisor: Dr. Cynthia Kuhn, Dr. David Walker, 2015</li> <li>Duke Institute for Brain Science, Department of Pharmacology and Cancer Biology <ul> <li>Studied chronic ethanol administration desensitization of adenosine A1 receptors as shown through an altered response to adenosine agonists in sudden darkness locomotor activity in adult rats</li> </ul></li></ul>
Seminars	<b>Baeza Loya, S</b> . How does sodium current diversity influence vestibular afferent firing? UChicago Neuroscience Graduate Program student talk. January 25 <sup>th</sup> , 2021.
Posters	<b>Baeza Loya, S.,</b> and Eatock, R.A. Impact of Persistent and Resurgent Sodium Currents on Excitability in Mouse Vestibular Ganglion Neurons. Society for Neuroscience Global Connectome, January 11-13, Virtual. Association for Research in Otolaryngology, February 20-24, Virtual.
	<b>Baeza Loya, S.,</b> and Eatock, R.A. Persistent and resurgent sodium currents in mouse vestibular ganglion neurons. Association for Research in Otolaryngology. San Jose, CA. January 24-29, 2020; Baltimore, MD. February 9-13, 2019.
	<b>Baeza Loya, S.,</b> and Eatock, R.A. Impact of diverse Nav currents on vestibular ganglion neuron firing patterns. Society for Neuroscience. Chicago, IL. October 18-23, 2019; San Diego, CA. November 3-7, 2018.
	<b>Baeza Loya, S.</b> , Velasquez, K., Salas, R. Altered cingulum connectivity in patients with major depressive disorder and substance use disorder. Rice Undergraduate Research Symposium (RURS). Houston, Texas. April 13, 2016
	<b>Baeza Loya, S.,</b> Walker, Q. D., Kuhn, C. The behavioral effects of alcohol mediated adenosine receptor function. BioCORE Symposium. Durham, North Carolina. July 2015.
	<b>Baeza Loya, S.</b> , Velasquez, K., Salas, R. The Dynamic Neurological Patterns of Behavior: Anatomical and functional brain connectivity in nicotine addicts" Selina Baeza-Loya, Ramiro Salas Ph.D., Kenia. Annual Biomedical Research Conferences for Minority Students (ABRCMS). San Antonio, Texas. November 12-15, 2014.
Teaching Experience	Instructor, Target HOPE Saturday Academy, 2021 Neuroscience Fundamentals, Sensation and Perception
	Teaching assistant, Marine Biological Laboratories, Biology of the Inner Ear, 2019. (Directors: Ruth Anne Eatock, Andrew Groves, and Philip Joris)

	<ul> <li>Teaching assistant, College of the University of Chicago</li> <li>Cellular Neuroscience. Instructors: Dr. Ruth Anne Eatock, Dr. Wei Wei, 2018.</li> <li>Systems Neuroscience. Instructors: Dr. Dave Freedman, 2019</li> </ul>	
Manuscript Referee	Frontiers Neuroscience	
Students Mentored	Christopher Long, UChicago Graduate Student, June 2021 - present Sonya Malavez-Cajigas, UChicago PREP Student, June 2018 – June 2020 Dr. Florian Christov, MD research rotation, June 2017 – August 2018 Katie Mott, UChicago Undergraduate, September 2017 – June 2019	
Outreach and Activities	Student Representative, Biological Sciences Division Committee on Equitable Admissions, Biological Sciences Division, UChicago 2020	
	Steering Committee Member Neuroscience Early Stage Scientists Training Program, University of Chicago, 2020 - present	
	Board Member, <u>UChicagoGRAD Diversity Advisory Board (DAB)</u> , University of Chicago, 2017- 2020	
	Student Representative, Graduate Admissions Committee, UChicago Committee in Neurobiology and Computational Neuroscience, 2017-2018	
	Director of Recruitment, Graduate Recruitment Initiative Team (GRIT), University of Chicago, 2017 – 2018	
	Executive Team Member, <u>Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)</u> UChicago Chapter, 2017-2018	
Conferences Organized	"Midwest Regional SACNAS Conference at UChicago". University of Chicago. April 28 <sup>th</sup> , 2018. Organized by Christina Roman, Selina Baeza Loya, and Jay Pittman.	

References

## Dr. Ruth Anne Eatock

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## Dr. Anna Lysakowski

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## Dr. Leslie Kay

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