

Jesus G Cruz-Garza

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Objective

My passion and long-term career goal is to create knowledge and technology that positively affects the lives of millions of people. My objective is twofold: 1) To promote quality multidisciplinary education access equality; and 2) To develop technology and a knowledge base that lead to improvements in quality of life, through scientific research.

Education

2014- PhD- University of Houston, Houston, TX.
Neuroengineering, ECE department.
2009-2014 BS- Tecnologico de Monterrey, Monterrey, Mexico.
Bachelor of Science in Engineering Physics

Professional Experience

Research Experience

2014- Research Assistant. University of Houston.
2013-2014 Lead Research Assistant. Tecnologico de Monterrey.
2012-2013 Research Assistant. Tecnologico de Monterrey.

Industry Experience

2013 Product Innovation Intern. PepsiCo, NY.
2012 Research Intern. Corning Cable Systems, Mexico.

Teaching Experience

2015- Teaching Fellow at University of Houston.
2012-2013 Physics Laboratory Instructor. Tecnologico de Monterrey.
2009-2013 Teaching Assistant. Tecnologico de Monterrey.

Professional Society Membership

Student member: IEEE, SFN, SHPE, ASME, UH Phi Beta Delta.

Leadership Experience

2016- UH-IEEE Graduate Representative Chair
2016- IEEE Houston Section: Engineering Council of Houston, Engineering in Medicine & Biology Society, Awards & Arrangements
2015- Brain on Art research student leader.
2014 Personal finance, Panama. AIESEC. Led personal finance seminars for remote rural communities in Panama.
2012 Head Logistics Coordinator. XV International Physics Symposium.- Tecnologico de Monterrey, Mexico.
2011-2012 Founder member, Instructor, Outreach coordinator. Jaquemat. – Tecnologico de Monterrey.

Awards

2016 Travel Grant IEEE- Future Leaders Forum
2016 Nominated for Distinguished Graduate Student Leader, University of Houston. 2016 Nominated for Distinguished Graduate Student Leader, University of Houston.
2015 University of Houston – Methodist Hospital Research Institute Graduate Fellowship in Translational Research.
2015 Future Faculty Fellowship program at University of Houston.
2014 Tuition Fellowship for PhD program, University of Houston.
2014 Nominated for the Best Scholarly Publication by a Graduate Student Award, GRASP, University of Houston.
2014 Distinguished Student Award for the Research and Development, Tecnologico de Monterrey.
2013 Student Development Diploma, Tecnologico de Monterrey.
2013 Distinguished Student Award, Tecnologico de Monterrey.
2011 Impulso Mexico Joven 2011, by Mexican Institute of Youth.
2009 Academic Excellence Scholarship, Tecnologico de Monterrey.

Research Interests

Brain-Computer Interfaces, Computational Neuroscience, Machine Learning, Neuroaesthetics, Rehabilitation Engineering.

Selected Invited Talks and Presentations

Your Brain on Art: Understanding the Brain in Creative Action and Context, Presenter, Museum of Fine Arts, Houston, TX. 2016.
Houston Arts Partners. Alley Theater, Houston, Texas. 2016.
Graduate and Professional Student Orientation, University of Houston. Houston, TX. 2016.

Presenter. Art, Mind, and Science conference, by FIRST-MD. San Antonio, TX. 2016

Guest speaker. Course The Future of Neuroscience, Rice University. Houston TX. 2015.

Presenter. Innovation Festival - USPTO, Smithsonian Museum of American History. Washington, DC. 2015.

Panelist. Houston Arts Partners (HAP) Conference, Museum of Fine Arts Houston. Houston, TX. 2015.

Publications

Journal Articles

1. **Cruz-Garza JG**, et al. 2014 Front Hum Neurosci. 8;8:188. doi: 10.3389/fnhum.2014.00188.
2. **Cruz-Garza JG**, et al. 2015 J. Vis. Exp. Issue 104; doi: 10.3791/53406
3. Kontson K, **Cruz-Garza JG**, et al. 2015 Front. Hum. Neurosci. 9:626. doi: 10.3389/fnhum.2015.00626.
4. Contreras-Vidal JL, **Cruz-Garza JG**, et al. 2016 J. Neural Eng. 13 031001. doi: /10.1088/1741-2560/13/3/031001
5. Hernandez ZR, **Cruz-Garza JG**, et al. Conf Proc IEEE Eng Med Biol Soc. 2014;2014:2115-8. doi: 10.1109/EMBC.2014.6944034.

Selected Meeting Abstracts

6. **Cruz-Garza JG**, et al. SFN: Neuroscience 2015. Chicago, IL.
7. **Cruz-Garza JG**, et al. SFN: Neuroscience 2015. Chicago, IL.
8. Kontson K, **Cruz-Garza JG**, et al. SFN: Neuroscience 2015. Chicago, IL.
9. Arenas-Castellanos AJ, **Cruz-Garza JG** et al. Cognitive Development Society 2015. Columbus, OH.
10. Hernandez ZR, **Cruz-Garza JG**, et al. Theoretical and Computational Neuroscience Conference 2015. Houston, TX.
11. **Cruz-Garza JG**, et al. Congreso de Mecatronica 2015. Monterrey, Mexico.
12. Brantley JA, **Cruz-Garza JG**, et al. Mission Connect Annual Scientific Symposium 2014. Houston, TX.
13. **Cruz-Garza JG**, et al. NeuroEngineering Symposium 2014. Houston, TX.
14. Hernandez ZR, **Cruz-Garza JG**, et al. NeuroEngineering Symposium 2014. Houston, TX.
15. **Cruz-Garza JG**, et al. Congreso de Investigación y Desarrollo 2014. Monterrey, Mexico.

Other Skills

Programming Languages: MATLAB, Java, LaTeX.

Languages: Spanish, English, French.

2013-2015 Cougar Dancesport. 4th place Salsa Open competition.

2009-2014 Three intramural Basketball Championships, Tec de Mty.