

Dr. Ramón Huerta

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| ACADEMIC APPOINTMENTS | <i>Research Scientist</i> at University of California San Diego <i>Associate Research Scientist</i> at University of California San Diego <i>Assistant Research Scientist</i> at University of California San Diego <i>Profesor Titular</i> ¹ at Universidad Autónoma de Madrid <i>Assistant Professor</i> at Universidad Autónoma de Madrid | 2012 to present 2006 - 2012 2003 - 2006 2000 - 2002 1998 - 2000 |
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| EDUCATION | Ph.D., School of Engineering, Universidad Autónoma de Madrid, M.S., Physics, Universidad Autónoma de Madrid, B.S., Physics, Universidad Autónoma de Madrid, | 1994 1991 1990 |
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| PRIZES | ACNP Integrative Behavioral Neuroscience Award for a model to explain the control of neural circuits involved in arousal stability. Award amount: \$15,000. | 2010 |
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| SCIENTIFIC PROFILES | Google Scholar: http://scholar.google.com/citations?sortby=pubdate&hl=en&user=A074T6gAAAAJ |
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ResearchGate:
<https://www.researchgate.net/profile/Ramon.Huerta/>

| RESEARCH AREAS THOMSON REUTERS | Research Areas | Number of papers | % |
|--------------------------------------|------------------------------------|-------------------------|----------|
| | COMPUTER SCIENCE | 29 | 29% |
| | NEUROSCIENCES NEUROLOGY | 28 | 28% |
| | PHYSICS | 28 | 29% |
| | CHEMISTRY | 11 | 11% |
| | ELECTROCHEMISTRY | 9 | 9% |
| | INSTRUMENTS INSTRUMENTATION | 9 | 9% |
| | SCIENCE TECHNOLOGY OTHER TOPICS | 8 | 8% |
| | MATHEMATICS | 6 | 6% |
| | PHYSIOLOGY | 6 | 6% |
| | ENGINEERING | 4 | 4% |
| | MATHEMATICAL COMPUTATIONAL BIOLOGY | 4 | 4% |
| | BIOCHEMISTRY MOLECULAR BIOLOGY | 3 | 3% |
| | AUTOMATION CONTROL SYSTEMS | 2 | 2% |
| | BEHAVIORAL SCIENCES | 2 | 2% |

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| REFEREED JOURNAL PUBLICATIONS | <p>[1] Irene Rodriguez-Lujan and Ramón Huerta, “A Fisher Consistent Multiclass Loss Function with Variable Margin on Positive Examples”, <i>Electronic Journal of Statistics</i>, 9(2), 2255-2292 (2015). http://dx.doi.org/10.1214/15-EJS1073</p> <p>[2] Amigó, José M., Thiago S. Mosqueiro, and Ramón Huerta. ”Predicting Synchronization of Three Mutually Inhibiting Groups of Oscillators with Strong Resetting.” <i>Appl. Math</i> 9, no. 5 (2015): 2245-2256. http://dx.doi.org/10.12785/amis/090505</p> |
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¹Associate Professor with tenure on leave of absence since 2002

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- [4] Chen, Jen-Yung, Emiliano Marachlian, Collins Assisi, Ramon Huerta, Brian H. Smith, Fernando Locatelli, and Maxim Bazhenov. "Learning Modifies Odor Mixture Processing to Improve Detection of Relevant Components." *The Journal of Neuroscience* 35, no. 1 (2015): 179-197. <http://dx.doi.org/10.1523/JNEUROSCI.2345-14.2015>
- [5] Fonollosa, J., E. Neftci, R. Huerta, and S. Marco. "Evaluation of calibration transfer strategies between Metal Oxide gas sensor arrays." *Procedia Engineering* 120 (2015): 261-264. <http://dx.doi.org/10.1016/j.proeng.2015.08.601>
- [6] Sorooshyari, Siamak, Ramón Huerta, and Luis de Lecea. "A framework for quantitative modeling of neural circuits involved in sleep-to-wake transition." *Frontiers in neurology* 6 (2015). <http://dx.doi.org/10.3389/fneur.2015.00032>
- [7] Montero, Aaron, Ramon Huerta, and Francisco B. Rodriguez. "Regulation of specialists and generalists by neural variability improves pattern recognition performance." *Neurocomputing* 151 (2015): 69-77. <http://dx.doi.org/10.1016/j.neucom.2014.09.073>
- [8] Fonollosa, Jordi, Sadique Sheik, Ramón Huerta, and Santiago Marco. "Reservoir computing compensates slow response of chemosensor arrays exposed to fast varying gas concentrations in continuous monitoring." *Sensors and Actuators B: Chemical* 215 (2015): 618-629. <http://dx.doi.org/10.1016/j.snb.2015.03.028>
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- [10] Fonollosa, Jordi, Irene Rodriguez-Luján, Marco Trincavelli, Alexander Vergara, and Ramón Huerta. "Chemical discrimination in turbulent gas mixtures with mox sensors validated by gas chromatography-mass spectrometry." *Sensors* 14, no. 10 (2014): 19336-19353. <http://dx.doi.org/10.3390/s141019336>
- [11] Attila Szucs and Ramon Huerta. "Differential effects of static and dynamic inputs on neuronal excitability." *Journal of neurophysiology*, jn-00226 (2014). <http://dx.doi.org/10.1152/jn.00226.2014>
- [12] Mosqueiro, Thiago S., and Ramon Huerta. "Computational models to understand decision making and pattern recognition in the insect brain." *Current Opinion in Insect Science* 6, 80-85 (2014). <http://dx.doi.org/10.1016/j.cois.2014.10.005>
- [13] Thiago Mosqueiro, Luis de Lecea, and Ramon Huerta. "Control of sleep-to-wake transitions via fast amino acid and slow neuropeptide transmission." *New Journal of Physics* 16(11), 115010 (2014). <http://dx.doi.org/10.1088/1367-2630/16/11/115010>

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