

REFEREED PUBLICATIONS.

- 2020 **LC, R.**, Alcibar, A., Baez, A., and Torossian, S. "Machine Gaze: self-identification through play with a computer vision enabled interactive robot." *Frontiers in Robotics and AI: Human-Robot Interaction*. (2019): Lausanne, Switzerland. [Online](#).
- 2020 **LC, R.**, Friedman, N., Zamfirescu-Pereira, J. D., and Ju, W. (2020) "Agents of Spatial Influence: Designing incidental interactions with arrangements and gestures." *HRI '20: The 15th ACM/IEEE International Conference on Human Computer Interaction*. [Online](#).
- 2020 Coutu, Y., Chang, Y., Zhang, W., Sengun, S., and **LC, R.** (2020) "Immersiveness and usability in VR: a comparative study of Monstrum and Fruit Ninja." In Bostan: *Game User Experience and Player-Centered Design*. International Series on Computer Entertainment and Media Technology: Springer, 437-448. doi: 10.1007/978-3-030-37643-7_20. [Online](#).
- 2019 **LC, R.**, Ullah, A., and Monir, F. "A Case for Play: Immersive Storytelling of Rohingya Refugee Experience." *Media-N Journal of the New Media Caucus. Issue on NEoN Digital Arts Re@ct Social Change Art Technology*. (2019): Dundee, UK. [Online](#).
- 2019 **LC, R.** and Fukuoka, Y. "Machine Learning and Therapeutic Strategies in VR." *ARTECH 2019: Proceedings of the 9th International Conference on Digital and Interactive Arts*. Braga, Portugal: 42, 1-6 (2019). ACM, NY. doi:10.1145/3359852.3359908. [Online](#).
- 2019 **LC, R.** "Secret Lives of Machines." *Proceedings of IEEE ICRA-X Robotic Art Program*. 23-25 (2019): Elektra, Montreal, Canada. [Online](#).
- 2018 **LC, R.** "Artistic Intelligence." *Proceedings of International Symposium on Computational Media Art*. 12-19 (2018): City University of Hong Kong School of Creative Media. [Online](#).
- 2018 **LC, R.**, Tranquilli, M., Wardrop, A. "Midi-Rox: A reversible wrap dress to empower one-handed dressing." *Annual Proceedings of the American Occupational Therapy Association*. 120 (2019): New Orleans, US. [Online](#).
- 2018 **Luo, R.***, Uematsu, A.*, Weitemier A., Aquili, L., Koivumaa, J., McHugh, T. J., and Johansen, J. P. "A dopaminergic switch for fear to safety transitions." *Nature Communications*, 16 (30087B) (2018). (* - equal contribution) [Online](#).
Citations (28 Google Scholar): incl (Cain, 2019; Felsenberg et al., 2018; Hake et al., 2019; Jo, Heymann, & Zweifel, 2018; Margolis & Karkhanis, 2019; Milton, 2019; Mingote, Amsellem, Kempf, Rayport, & Chuhma, 2019; Nguyen et al., 2019; Salinas-Hernandez et al., 2018; Stelly et al., 2019; Thibeault, Kutlu, Sanders, & Calipari, 2019; Todorov, Mayilvahanan, Ashurov, & Cunha, 2019; Velasco, Florido, Milad, & Andero, 2019)
- 2012 Dellal, S. S.*, **Luo, R.***, and Otis, T. S. "GABA_A receptors increase excitability and conduction velocity in cerebellar parallel fiber axons." *J. Neurophysiology*, 107(11):2958-2970 (2012). (* equal contribution) [Online](#).

Citations (24 Google Scholar): incl (Albers & Offenhausser, 2016; Astorga et al., 2015; Berglund, Wen, Dunbar, Feng, & Augustine, 2016; Coddington, Nietz, & Wadiche, 2014; de San Martin, Jalil, & Trigo, 2015; Dover et al., 2016; Howell & Pugh, 2016; Khatri, Wu, Yang, & Pugh, 2019; Pugh & Jahr, 2013; Ransom, Tao, Wu, Spain, & Richerson, 2013; Santhakumar, Meera, Karakossian, & Otis, 2013; Shi, Trigo, Semmelhack, & Wang, 2014; Stoelzel, Bereshpolova, Alonso, & Swadlow, 2017; Trigo, 2019; Weisz, Rubio, Givens, & Kandler, 2016; Zorrilla de San Martin, Trigo, & Kawaguchi, 2017)

- 2012 **Luo, R.** *Fast Times: Excitatory effects of GABA in axonal compartments in the cerebellar molecular layer*. UCLA Interdepartmental Neuroscience Program: (2012). [Online](#).
- 2009 Bradley, J., **Luo, R.**, Otis, T. S., and DiGregorio, D. A. "Submillisecond optical reporting of membrane potential *in situ* using a neuronal tracer dye." *Journal of Neuroscience*, (2009) 29: 9197-209. [Online](#).
- Citations** (98 Google Scholar): incl (Barros, Dominguez, & de la Pena, 2018; Batabyal et al., 2017; Bayguinov, Ma, Gao, Zhao, & Jackson, 2017; Beier, Roth, Bixler, Sedelnikova, & Ibey, 2019; Chisari, Wu, Zorumski, & Mennerick, 2011; Del Alamo et al., 2016; Ducros, Goulam Houssen, Bradley, de Sars, & Charpak, 2013; Fernandez-Alfonso et al., 2014; Fink, Bender, Trussell, Otis, & DiGregorio, 2012; Garten et al., 2017; Ghitani, Bayguinov, Ma, & Jackson, 2015; Graham, Robbins, Bowen, & Taylor, 2011; Grenier, Daws, Liu, & Miller, 2019; Grenier, Walker, & Miller, 2015; Hinman, Rasband, & Carmichael, 2013; Hoppa, Gouzer, Armbruster, & Ryan, 2014; Huang, Walker, & Miller, 2015; Iannella, Launey, & Tanaka, 2010; Kralj, Douglass, Hochbaum, Maclaurin, & Cohen, 2011; Linsenshardt et al., 2013; Manno, Figueroa, Fitts, & Rios, 2013; Marshall & Schnitzer, 2013; Miller, 2016; Miller et al., 2012; Pages, Cote, & De Koninck, 2011; Peterka, Takahashi, & Yuste, 2011; Popovic et al., 2015; Rao, Zhang, Li, Shao, & Wang, 2017; Reeve et al., 2013; Shtrahman et al., 2015; Theer, Denk, Sheves, Lewis, & Detwiler, 2011; Wang, McMahon, Zhang, & Jackson, 2012; Wang, Zhang, Chanda, & Jackson, 2010; Woodford et al., 2015; Wu & Cohen, 2010; Yan, Acker, & Loew, 2018; Yan et al., 2012)
- 2004 **Luo, R.** "Markov chain Monte Carlo methods for visual tracking." *Berkeley Scientific*, University of California, Berkeley (2004). [Online](#).
- 2003 **Luo, R.**, Tesch, J. "From 1D to 3D: cooperative determination of a protein's structure from its sequence." *Berkeley Scientific*, University of California, Berkeley (2003). [Online](#).
- 2003 **Luo, R.** "Semantic priming in a Bayesian framework." *California Engineer*, (2003). 81(2):18-23. [Online](#).

CITATION PAGES

Google Scholar: <https://scholar.google.com/citations?user=8wM0urcAAAAJ&hl=en>

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SELECT RESEARCH ABSTRACTS.

2020 ACM IEEE HRI, "Fake It to Make It," simulating robot interaction with VR and video, [paper](#).
2020 CHI, "Effects of non-player character type on moral responses in interrogation." [poster](#).
2019 CHI, "Be the Chair You Wish to See in the World," crowd-sourced robot gestures, [paper](#).
2019 IEEE ICRA-X Robotic Art Program, "Secret Lives of Machines" exhibit, [poster](#).
2019 Creative Tech Week Conference NYC, "Secret Lives of Machines," [talk](#).
2019 Critical Creative Practice, CAMD Symposium at Northeastern University Art Media, [talk](#).
2018 ISMA: International Symposium on Computation Media Art, City Univ of Hong Kong, [talk](#).
2016 7th International Symposium on Optogenetics, Tokyo Medical Dental University, [poster](#).
2015 45th Society for Neuroscience meeting, Chicago IL, [poster](#).
2015 38th Japan Neuroscience Society annual meeting, Kobe Japan, [poster](#).
2015 Doshisha University Faculty of Medical Sciences, invite Hiroaki Taniguchi, Kyoto, talk.
2014 Juntendo University Medical School M2/M3 series, invite Dr. Junichi Azuma, Tokyo, talk.
2013 RIKEN BSI Annual Retreat, Karuizawa, Japan, [poster](#).
2012 Harvard Genetics Seminar talk and visit, invite Dr. Jesse Gray, Boston, MA, talk.
2012 UCLA Undergraduate Research Fellowship Program colloquium, Los Angeles CA, [poster](#).
2011 2nd Cold Spring Harbor Computational Cognitive Neurobiology, China, [workshop](#).
2011 UCLA Interdepartmental Neuroscience Program retreat, Los Angeles CA, [talk](#).
2011 Gordon Conference on Cerebellum in Health and Disease, New London NH, [poster](#).
2010 13th Annual UCLA Science Poster Day, Los Angeles, CA, [poster](#).
2010 7th Forum of European Neuroscience, Amsterdam Netherlands, [poster](#).
2010 7th Okinawa Computational Neuroscience Course, Okinawa Japan, [talk](#).
2010 17th Cognitive Neuroscience meeting, Montreal Canada, [article](#).
2009 RIKEN Brain Science Institute Summer Program, Tokyo Japan, [poster](#).
2009 4th UCLA Dynamics of Neural Microcircuits Symposium, Los Angeles CA, [poster](#).
2008 UCLA Neuroscience Graduate Forum, Los Angeles CA, [talk](#).
2008 12th UCLA Brain Research Institute Neuroscience poster, Los Angeles, CA, [poster](#).
2008 38th Society for Neuroscience meeting, Washington DC, [poster](#).
2008 25th Microelectrode Techniques for Cell Physiology, Plymouth UK, [workshop](#).
2004 Palo Alto Research Center undergraduate colloquium, Palo Alto CA, [poster](#).