

CURRICULUM VITAE

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Ph.D. Candidate in Computation & Neural Systems

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Education

2016 Case Western Reserve University, B.S. in Biomedical Engineering
In Progress California Institute of Technology, Ph.D. in Computation & Neural Systems

Academic Experience

2012-2015 Senior Research Associate, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital
2012-2015 Research Affiliate, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology
2018- Teaching Assistant, Division of Biology and Biological Engineering, California Institute of Technology

Honors and Awards

2016-2021 Graduate Research Fellow, National Science Foundation
2019 Amazon Fellow in Artificial Intelligence, Amazon Web Services
2019 Chen Graduate Innovator Award, Tianqiao and Chrissy Chen Institute for Neuroscience

Special Lectures

10.2013 Invited Speaker, American Society of Anesthesiologists, San Francisco
08.2018 Invited Speaker, Caltech Postdoctoral Association, Pasadena
01.2020 Invited Speaker, Tianqiao and Chrissy Chen Institute for Neuroscience, Pasadena

Professional Activities

2019 Reviewer, Real Neurons & Hidden Units, *Neural Information Processing Systems*

Publications

1. Real-time closed-loop control in a rodent model of medically induced coma using burst suppression (2013). S. Ching, M. Liberman, J. Chemali, M. Westover, **J. Kenny**, K. Solt, P. Purdon, and E. Brown. *Anesthesiology* 119, 848–860.
2. Electrical stimulation of the ventral tegmental area induces reanimation from general anesthesia (2014). K. Solt, C. Van Dort, J. Chemali, N. Taylor, **J. Kenny**, and E. Brown. *Anesthesiology* 121, 311–319.
3. Propofol and sevoflurane induce distinct burst suppression patterns in rats (2014). **J. Kenny**, M. Westover, S. Ching, E. Brown and K. Solt. *Front. Syst. Neurosci.* 8.
4. Optogenetic activation of cholinergic neurons in the PPT or LDT induces REM sleep (2015). C. Van Dort, D. Zachs, **J. Kenny**, S. Zheng, R. Goldblum, N. Gelwan, D. Ramos, M. Nolan, K. Wang, F. Weng, Y. Lin, M. Wilson, and E. Brown. *Proc. Natl. Acad. Sci.* 112, 584–589.
5. Ageing delays emergence from general anesthesia in rats by increasing anaesthetic sensitivity in the brain (2015). J. Chemali, **J. Kenny**, O. Olutola, N. Taylor, E. Kimchi, P. Purdon, E. Brown, and K. Solt. *Br. J. Anaesth.* 115, i58–i65.
6. Dextroamphetamine (but not atomoxetine) induces reanimation from general anesthesia: Implications for the roles of dopamine and norepinephrine in active emergence (2015). **J. Kenny**, N. Taylor, E. Brown, and K. Solt. *PLoS ONE* 10.
7. Physostigmine and methylphenidate induce distinct arousal states during isoflurane general anesthesia in rats (2016). **J. Kenny**, J. Chemali, J. Cotton, C. Van Dort, S. Kim, D. Ba, E. Brown, and K. Solt. *Anesth. Analg.* 123, 1210–1219.
8. Electrical stimulation of the parabrachial nucleus induces reanimation from isoflurane general anesthesia (2016). F. Muindi, **J. Kenny**, N. Taylor, K. Solt, M. Wilson, E. Brown, and C. Van Dort. *Behav. Brain Res.* 306, pp. 20–25.
9. Optogenetic activation of dopamine neurons in the ventral tegmental area induces reanimation from general anesthesia (2016). N. Taylor, C. Van Dort, **J. Kenny**, J. Pei, J. Guidera, K. Vlasov, J. Lee, E. Boyden, E. Brown, and K. Solt. *Proc. Natl. Acad. Sci.* 113, 12826–12831.
10. Activation of GABAergic neurons in the rostromedial tegmental nucleus and other brainstem regions promotes sedation and facilitates sevoflurane anesthesia in mice (2021). K. Vlasov, J. Pei, C. Nehs, J. Guidera, E. Zhang, **J. Kenny**, T. Houle, G. Brenner, N. Taylor, and K. Solt. *Anesth. Analg.* 132, e50–e55.