



Member Publications  
October 2011 – April 2018

- Publications supported directly by CSNE funding.

## Amir Alimohammad

2017

- Hennessy, A. and Alimohammad, A., Design and implementation of a digital secure code-shifted reference UWB transmitter and receiver, IEEE Transactions on Circuits and Systems I: Regular papers, March 2017, pp. 1-10.

## Richard Andersen

2017

- Zhang, C.Y., Aflalo, T., Revechkis, B., Rosario, E.R., Ouellette, D., Pouratian, N. and Andersen, R.A., Partially mixed selectivity in human posterior parietal association cortex, Neuron, 95:697-708, 2017.

2018

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## Polina Anikeeva

2011

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2012

- Anikeeva, P. and Deisseroth, K., Photothermal genetic engineering. ACS Nano, 6:7548-7552, 2012.

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■ Lu, C., Froriep, U. P., Koppes, R. A., Canales, A., Caggiano, V., Selvidge, J., Bizzi, E. and Anikeeva, P., Polymer fiber probes enable optical control of spinal cord and muscle function *in vivo*. *Adv. Funct. Mater.* 24: 6594–6600, 2014.

• Pashaie, R., Anikeeva, P., Lee, J-H., Prakash, R., Yizhar, O., Prigge, M., Chander, D., Richner, T.J. and Williams, J. , Optogenetic brain interfaces. *IEEE Reviews in Biomedical Engineering*, 7:3-30, 2014.

## 2015

• Canales, A., Jia, A., Froriep, U. P., Koppes, R. A., Tringides, C.M., Selvidge, J., Lu, C., Hou, C., Wei, L., Fink, Y. and Anikeeva, P., Multifunctional fibers for simultaneous optical, electrical and chemical interrogation of neural circuits *in vivo*. *Nature Biotechnology*, 33:277-284, 2015.

• Chen, R., Romero, G., Christiansen, M.G., Mohr, A., and Anikeeva, P., Wireless magnetothermal deep brain stimulation. *Science*, 347:1477-1480, 2015.

• Park, S., Koppes, R.A., Froriep, U.P., Jia, X., Achyuta, A.K., McLaughlin, B.L., Anikeeva, P., Optogenetic control of nerve growth. *Sci Rep.* 2015 May 18;5:9669. doi: 10.1038/srep09669.

• Loynachan, C.N., Romero, G., Christiansen, M.G., Chen, R., Ellison, R., O'Malley, T.T., Froriep, U.P., Walsh, D.M. and Anikeeva, P., Targeted magnetic nanoparticles for remote magnetothermal disruption of amyloid- $\beta$  aggregates. *Adv Healthc Mater*, 4:2100-2109, 2015.

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• Matsumoto, Y., Chen, R., Anikeeva, P., and Jasanoff, A. Engineering intracellular biomineralization and biosensing by a magnetic protein. *Nat Commun.* 2015 Nov 2;6:8721.

• Anikeeva, P. and Jia, X., Remote-controlled mice. *Cell Systems*, 1:104-105, 2015.

## 2016

• Koppes, R.A., Park, S., Hood, T., Jia, X., Poorheravi, N.A., Achyuta, A.H., Fink, Y. and Anikeeva, P., Thermally drawn fibers as nerve guidance scaffolds. *Biomaterials*, 81:27-35, 2016.

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• Anikeeva, P. and Jasanoff, A., Problems on the back of an envelope. *Elife.* 2016 Sep 8;5. pii: e19569. doi: 10.7554/eLife.19569.

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#### Askkan Ashrafi

2013

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#### Scott Bellman

2014

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#### Bing Brunton

2015

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#### Howard Chizeck

2011

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- Matlack, C., Moritz, C. and Chizeck, H.J., Applying best practices from digital control systems to BMI implementation. 34<sup>th</sup> IEEE Engineering in Medicine and Biology Conference, San Diego, Aug. 2012.
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### Eric Chudler

2012

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2018

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### Tom Daniel

2012

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## Adrienne Fairhall

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