

# Tamas L. Nagy

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## Education

*2015*— Graduate student, Biomedical Informatics, University of California, San Francisco

*2011—2015* B.S. in Chemistry, B.S. in Mathematics, University of Kentucky, Lexington

## Research Interests

Systems Biology & Computational Biology; Machine Vision; Cell-to-Cell Heterogeneity and Cell Decision Making; Data Visualization

## Programming

Julia, Python, HTML/CSS/Javascript, L<sup>A</sup>T<sub>E</sub>X

## Awards & Grants

*2017* Graduate Division TA award for BMI 203, Algorithms, University of California, San Francisco

*2017* Moritz-Heyman Discovery Fellow, University of California, San Francisco

*2015* NSF Graduate Research Fellow, National Science Foundation

*2014* Undergraduate Research Abroad Scholar w/Lucas Pelkmans, University of Zurich

*2013* AMGEN/CRSB Fellow w/Jennifer Doudna, University of California, Berkeley

2011—2015 **Chellgren Fellow**, University of Kentucky

2011—2015 **Otis A. Singletary Scholar**, University of Kentucky (Tuition, Board, & stipend)

## Publications

**Nagy, T.**, & Kampmann, M. (2017). CRISPulator: a discrete simulation tool for pooled genetic screens. *BMC Bioinformatics*, 18(1), 347. <https://doi.org/10.1186/s12859-017-1759-9> Preprint: <https://doi.org/10.1101/119131>

Webb, S., **Nagy, T.**, Moseley, H., Fried, M., & Dutch, R. E. (2017). Hendra virus fusion protein transmembrane domain contributes to pre-fusion protein stability. *The Journal of Biological Chemistry*. <https://doi.org/10.1074/jbc.M117.777235>

## Talks & Posters

2018 “Active control of cell volume during immune cell migration”, 2018 Training Grantees Meeting, National Institute of Biomedical Imaging and Bioengineering, Bethesda, MD

2016 “Leveraging CRISPR for Precision Biology”, Workshop with Jacob Corn and Martin Kampmann, American Society for Cell Biology Annual Meeting, San Francisco, CA

2014 “Investigating the Expanding Role of Transmembrane Domains in Enveloped Virus Entry,” Bioinformatics Summit, UT-KBRIN, Lake Barkley, KY

2014 “Investigating Common Transmembrane Motifs in Enveloped Virus Entry,” National Conference of Undergraduate Research, Lexington, KY

2013 “Engineered CRISPR/Cas-based System for RNA-guided, Tag-less, Spatiotemporal Imaging of Endogeneous RNA,” AMGEN symposium, Berkeley, CA

## Service

2018 Teaching Assistant, Algorithms, University of California, San Francisco

2017 Teaching Assistant, Algorithms, University of California, San Francisco

2014 Teaching Assistant, Organic Chemistry II, University of Kentucky

2013 Teaching Assistant, Organic Chemistry I, University of Kentucky

2013—2014 Public Relations, Society for the Promotion of Undergraduate Research (SPUR)

## References (Alphabetical)

Steven J. Altschuler, UCSF, steven.altschuler [at] ucsf.edu

Jennifer A. Doudna, UC Berkeley, doudna [at] berkeley.edu

Rebecca E. Dutch, University of Kentucky, rdutc2 [at] uky.edu

Jerzy Jaromczyk, University of Kentucky, jurek [at] cs.uky.edu

Martin Kampmann, UCSF, martin.kampmann [at] ucsf.edu

Hunter Moseley, University of Kentucky, hunter.moseley [at] uky.edu

Lucas Pelkmans, University of Zurich, lucas.pelkmans [at] imls.uzh.ch

Orion Weiner, UCSF, orion.weiner [at] ucsf.edu

Lani Wu, UCSF, lani.wu [at] ucsf.edu

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