

# DANIEL R. KICK

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## EDUCATION

- 2021**  
|  
**2015**  
**PhD. Biological Sciences**  
University of Missouri  
Columbia, MO  
• FOCUSED ON ... 3.97/4.00
- 2015**  
|  
**2011**  
**Bachelor of Science**  
Truman State University  
Kirksville, MO  
• 3.65/4.00

## RESEARCH EXPERIENCE

- Current**  
|  
**2021**  
**Research Geneticist**  
Jacob Washburn Lab  
USDA-ARS  
• Improved yield prediction in maize through incorporation of gene by environment effects with deep learning
- 2021**  
|  
**2016**  
**Graduate Student**  
David Schulz Lab  
Missouri State University  
• Efficacy of machine learning to recapitulate neural cell identity from mRNA expression; Activity dependent compensation in small neural networks
- 2015**  
|  
**2015**  
**Graduate Student Rotation**  
Bing Zhang Lab  
Missouri State University  
• Quantified sleep patterns in *Drosophila melanogaster* tyrosine hydroxylase mutant
- 2015**  
|  
**2015**  
**Graduate Student Rotation**  
Loren Milescu Lab  
Missouri State University  
• Development of live imaging protocol for *D. melanogaster* with a two-photon microscope
- 2014**  
|  
**2014**  
**NSF REU Student**  
Rahul Kanadia Lab  
University of Connecticut



View this CV online with links at  
[\\_https://danielkick.com/cv.pdf\\_](https://danielkick.com/cv.pdf)

## CONTACT

✉ [hello@danielkick.com](mailto:hello@danielkick.com)  
0000-0002-9002-1862  
🐙 <https://github.com/danielkick>  
🌐 [danielkick.com](https://www.linkedin.com/in/daniel-kick-5a449b9a/)  
in <https://www.linkedin.com/in/daniel-kick-5a449b9a/>

## LANGUAGE SKILLS



Made with the R package  
[pagedown](#).

The source code is available on  
[github.com/nstrayer/cv](https://github.com/nstrayer/cv).

Last updated on 2022-10-06.

- 2014  
|  
2014 • **Undergraduate Researcher**  
Diane Janick-Buckner, Brent Buckner Lab 📍 Truman State University  
• Development of hydroponic growth chamber for maize root phenotyping
- 2013  
|  
2013 • **NSF REU Student**  
Christian Lorson Lab 📍 Missouri State University
- 2011  
|  
2011 • **Student Assistant**  
Laszlo Kovacs Laboratory 📍 Missouri State University



## INDUSTRY EXPERIENCE

- N/A

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## TEACHING EXPERIENCE

- 2021  
|  
2020 • **Lead Teaching Assistant, Animal Physiology Lab**  
Biological Sciences 📍 University of Missouri  
• Taught, Managed and Trained TAs, Adapted Content for remote learning during COVID-19 pandemic  
• developed test<sup>7</sup> used by at minimum 705 students as of 2021
- 2020  
|  
2018 • **Teaching Assistant, Animal Physiology Lab**  
Biological Sciences 📍 University of Missouri
- 2018  
|  
2018 • **Curriculum Consultant, Animal Physiology Lab**  
Biological Sciences 📍 University of Missouri
- 2016  
|  
2015 • **Teaching Assistant, Animal Physiology Lab**  
Biological Sciences 📍 University of Missouri

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## SELECTED DATA SCIENCE WRITING

- N/A

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## SELECTED PRESS (ABOUT)



N/A



## SELECTED PRESS (BY)



N/A



## SELECTED PUBLICATIONS, POSTERS, AND TALKS

2022



### **Yield Prediction Through Integration of Genetic, Environment, and Management Data**

Under-Review [bioRxiv](#)

• Daniel R. Kick, Jason G. Wallace, James C. Schnable, Judith M. Kolkman, Baris Alaca, Timothy M. Beissinger, David Ertl, Sherry Flint-Garcia, Joseph L. Gage, Candice N. Hirsch, Joseph E. Knoll, Natalia de Leon, Dayane C. Lima, Danilo Moreta, Maninder P. Singh, Teclemariam Weldekidan, Jacob D. Washburn

2022



### **Timing dependent potentiation and depression of**

Journal of Neuroscience

• Daniel R. Kick and David J. Schulz

2019



### **Molecular profiling of single neurons of known**

Proceedings of the National Academy of Sciences

• Adam J. Northcutt<sup>1</sup>, Daniel R. Kick<sup>1</sup>, Adriane G. Otopalik, Benjamin M. Goetz, Rayna M. Harris, Joseph M. Santin, Hans A. Hofmann, Eve Marder, and David J. Schulz

2019



### **Cell Communication: Studying gap junctions with**

eLife

• Daniel R Kick, David J Schulz

2018



### **Dopamine maintains network synchrony via direct**

eLife

• Brian J Lane, Daniel R Kick, David K Wilson, Satish S Nair, David J Schulz

2018



### **Motor Systems: Variability in neural networks<sup>2</sup>**

eLife

• Daniel R Kick, David J Schulz

2016



**The Hillary Climber trumps manual testing: an automatic system for studying *Drosophila***

Journal of Neurogenetics

• Alex M. Willenbrink, Margo K. Gronauer, Leon F. Toeppen, Daniel R. Kick, Madalyn Wells & Bing Zhang



LINKS

1: [danielkick.shinyapps.io/BioSc3700\\_1/](https://danielkick.shinyapps.io/BioSc3700_1/)

2: <https://elifesciences.org/articles/34153>