



# Eric Kuebler (PhD)

## RECENT PROJECTS

**Cross-method classification of neuron types** (2018-2022) *Western University, Robarts Research Institute*

Extracellular physiologists are often forced to 'record blind' with little to no knowledge of the types of neurons they record. **Solution:** We developed a method to accurately classify (90%) the four main types of neurons (including three interneurons) in extracellular recordings based on intracellular neural network models (GitHub).

**Analysis pipeline for intracellular recordings** (2018-2022) *Western University, Robarts Research Institute*

Our lab needed an in-house analysis pipeline for single neuron recordings including statistical modeling and data visualization. **Solution:** We developed statistical analyses and quality control to examine the responses of single neurons (in voltage). This project grew to include a publicly available resource developed by our small group and funding for a worldwide collaboration (NeuroNex).

**Analysis pipeline for extracellular recordings** (2012-2018) *University of Ottawa and The National Research Council of Canada*

The analysis of voltage recordings generated by neurons cultured on multi-electrode arrays was cumbersome and done on an individual basis. **Solution:** We developed software to batch process recordings, including statistical analysis of connectivity thus significantly reducing hours spent loading files ( ).

## TRAINING

**Western University – Postdoc Trainee** (2018-2022)

Developed analysis pipelines for lab trainees to use, and a new method for analyzing recordings of populations of neurons. Gained experience with team leadership, training students, and coding methods.

**University of Ottawa – MA/PhD** (2012–2018)  
**Experimental Psychology**

Studies included psychology, advanced statistics, seminar courses in neuroscience, and computational modeling. Gained experience in lab management, training students, and university level teaching (Introduction to Statistics for Psychology, ~60 undergraduates).

**Laurentian University – BA** (2009-2012)  
**Psychology**

Coursework focused on psychology, statistics, research, physiology, and biology. Gained experience as volunteer researcher in cognitive psychology lab, tutoring, and mentoring.

## PROFILE

As a postdoctoral researcher, data analysis has been an integral part of my training in both experimental psychology and neuroscience.

I focus on generating analyses that are transferrable to colleagues and can be maintained.

I emphasize transparency, data literacy, high quality visualization, and interpretation of statistical analysis.

I have a passion for generating functional solutions.

## CONTACT

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## Software Experience

MATLAB	9
Python	2
SQL	1
R	<1
Adobe Suite	4
Microsoft Office	9
Slack	4
Discord	1.5

years experience

