

# Michael DuHain

1117 Clinton Ave S. Rochester, NY  
(530) 295-7305  
[mduhain@gmail.com](mailto:mduhain@gmail.com)  
[michael\\_duhain@urmc.rochester.edu](mailto:michael_duhain@urmc.rochester.edu)

## EXPERIENCE

### **Mazer Lab, Montana State University** - Research Associate

June 2017 - August 2019 | Full-time, paid

Extracellular recordings in early visual cortical areas of non-human primates, determining neuronal firing properties in response to simple and complex visual stimuli.

### **Bimczok Lab, Montana State University** — Research Assistant

May 2016 - June 2017 | Full-time (summer) & part-time (semester), paid

Developed a novel cultivation method for the zoonotic pathogen *Helicobacter suis*, bacterial transfection into HSC-derived gastric epithelial cells, and quantification of resident macrophage recruitment and cytokine response.

### **Big Sky Resort** — Emergency Medical Technician

November 2015 - April 2018 | Volunteer

Evaluating and stabilizing patients, assessing and managing traumatic injuries, and extracting patients from adverse conditions.

## EDUCATION

### **University of Rochester, Rochester, NY** — Graduate Program

September 2019 - Current

Ph.D. Graduate Program in Neuroscience

### **Montana State University, Bozeman, MT** — Bachelor of Science

August 2013 - May 2017

Major in Cell Biology & Neuroscience, with a concentration in Biomedical Science, awarded with honors.

### **Ponderosa High School, Shingle Springs, CA** — H.S. Diploma

August 2009 - June 2013

AP courses and credit in: Biology, Calculus, and Economics.

## AWARDS

T32 - Jointly Sponsored Institutional Predoctoral Training Program (JSPTPN)

## LABORATORY SKILLS

- Single unit, extracellular, *in vivo* neural recordings.
- Animal handling and training, non-human primates.
- *In vivo* 2-photon fluorescent microscopy
- Aseptic surgical techniques in mice, craniotomies, head-post implantation.
- Design, maintenance, and quantification of micro-anaerobic bacterial cultures
- Use of an ImageStreamX Mark II, Imaging Flow Cytometer
- Use of a BioLog Phenotype Microarray
- Live cell imaging and recording

## PROFESSIONAL SKILLS

- MATLAB: programming, scripting, data analysis and visualization.
- Slicer, MRI segmentation and stereotaxic mapping software.
- MATLAB Deep Learning, neural network training.
- MySQL: data storage, structuring, and querying.
- OpenSCAD, hardware development and 3D printing.
- Python, basic scripting and programming.

