Matthew K. Daddysman, Ph.D.

EDUCATION

University of North Carolina (Chapel Hill, NC): *Ph.D. Physical Chemistry*   December 2013
- Thesis: Fluorescent microscopy in the nucleus: Investigating protein diffusion and binding in live cells

Alderson Broaddus University (Philippi, WV): *B.S. Chemistry & Biology*   May 2009
- Graduated *summa cum laude* with an honors thesis
- Minored in international studies with a semester of study in Salzburg, Austria

WORK AND RESEARCH EXPERIENCE

Nikon Instruments   February 2023 – Present
Advanced Biosystems Specialist
- Responsible for working with local Nikon teams to drive laser-based microscopy system sales in IL, WI, IA, MO, & MN thru leading and coordinating equipment demos

Agilent Technologies (previously BioTek Instruments)   November 2017 – February 2023
Field Applications Scientist
- Responsible for Agilent BioTek confocal and widefield microscopy instrumentation demos and trainings for customers in the Midwest United States
- FAS Team Leader responsible for organizing FAS schedules in western United States, training of new FAS, and other responsibilities as assigned by the FAS manager

Institute for Biophysical Dynamics, University of Chicago   December 2013 – November 2017
Post-doctoral Scholar, Prof. Norbert Scherer
- Designed and managed spinning disk confocal microscope hardware and software
  - Publications in *Nature Microbiology* & *Review of Scientific Instruments*
- Wrote custom Matlab scripts for calcium analysis and object tracking
- Wrote an R Shiny app for exploratory data analysis of thousands of tracked objects
- Supervised three undergraduate research assistants

Department of Chemistry, University of North Carolina   August 2009 – December 2013
Research & Teaching Assistant, Prof. Christopher Fecko
- Maintained home-built two-photon laser scanning microscope
- Image processing and modeling of live-cell microscopy images
- Published three peer-reviewed articles

TECHNICAL SKILLS
- Programming languages: Matlab, R, Python, Labview, C, C++
- Statistical analysis using R
- Microsoft Office: Word, Excel, PowerPoint, SharePoint
- Microscopy software: ImageJ, Micromanager, Cell Profiler, NIS-Elements, Gen5

HONORS & AWARDS
- Yen post-doctoral fellowship, University of Chicago
- Albert R. Ledoux teaching award, University of North Carolina