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Education

Ph.D., Physics & Quantitative Biology, Rutgers University *expected* 2019
M.S., Physics, New York University 2011
A.B. *magna cum laude*, Chemistry & Physics, Harvard University 2004

Computational Experience & Skills

New York University, High Performance Computing Group, IT Services 2010 – 2011
deployment of web portal to display HPC resource utilization (supervisor: Erik Froese)

scientific computing across various research projects 2008 – *present*
see <https://tedm.us/wiki/t/scientific>

system administration, tedm.us 2003 – *present*
see <https://tedm.us/wiki/t/sysadmin>

Teaching Experience

Rutgers University, Department of Physics & Astronomy Piscataway, NJ
Teaching Assistant, Part-time Lecturer

- o Extended General Physics II Recitation Fall 2018
- o General Physics I Recitation Summer 2018
- o Extended General Physics I Recitation Spring 2018
- o Extended General Physics II Recitation Fall 2017
- o General Physics I Recitation Summer 2017
- o Extended General Physics I Recitation Spring 2017
- o Extended General Physics II Recitation Fall 2016
- o General Physics II Recitation Summer 2015
- o General Physics I Recitation Summer 2014
- o Honors Physics II Recitation Spring 2014
- o Analytical Physics IIB Recitation Spring 2014
- o General Physics II Laboratory Summer 2013

New York University, Department of Physics New York, NY
Teaching Assistant, Adjunct Instructor

- o Physics II Laboratory Spring 2011
- o Engineering Physics III Recitation Spring 2011
- o Engineering Physics III Laboratory Spring 2011
- o Physics II Recitation Spring 2010
- o Physics II Laboratory Spring 2010
- o Physics I Recitation Fall 2009
- o Physics I Laboratory Fall 2009
- o Natural Science I: How Things Work Recitation Spring 2009
- o 20th Century Concepts In Space, Time & Matter Recitation Fall 2008

The George Washington University, Department of Chemistry Adjunct Instructor	Washington, DC
○ University Physics I (biophysics section)	Spring 2008
○ Organic Chemistry Laboratory II	Spring 2008
○ Organic Chemistry Laboratory I	Fall 2007
American University, Department of Chemistry Adjunct Instructor	Washington, DC
○ Organic Chemistry Laboratory I	Fall 2007
○ The Molecular World	Spring 2008
○ The Molecular World	Fall 2007
St. Albans School Summer Chemistry Teacher, Assistant Rowing Coach	Washington, DC 2005 – 2008
St. Stephen's & St. Agnes School Science Teacher, Assistant Football Coach, Assistant Basketball Coach	Alexandria, VA 2005 – 2007
Harvard University, Department of Chemistry & Chemical Biology Teaching Fellow, Inorganic Chemistry	Cambridge, MA Fall 2004

Publications & Original Work

Doctoral thesis work (under Alex Morozov) Evolutionary analysis of a fully mapped two-plane protein fitness landscape	<i>in progress</i>
Pavel Khromov, Constantin D. Malliaris, Alexandre V. Morozov “Generalization of the Ewens sampling formula to arbitrary fitness landscapes” <i>PLOS ONE</i> , 13 , 1–23	2018
Master's thesis (under Jasna Brujić, Alexander Grosberg, & Eric Vanden-Eijnden) Molecular dynamics simulation and experimental unfolding of fluorinated ubiquitin	2010
Hoebel, S. J., Balss, K. M., Jones, B. J., Malliaris, C. D., . . . , Ross, D. “Scanning Temperature Gradient Focusing” <i>Analytical Chemistry</i> , 78 , 7186–7190	2006
Ross, D., Malliaris, C. D. “Whole Column Resistance Detection for Focusing Methods of Separation” IP.com Prior Art Database disclosure #IPCOM000028351D	2004

Honors & Awards

Rutgers Excellence Fellowship, Rutgers University	2011 – 2012
Henry M. MacCracken Program Graduate Fellowship, New York University	2008 – 2010
Summer Undergraduate Research Fellowship, NIST	Summer 2003
National Merit Scholarship, National Merit Scholarship Corporation	1999

References

available upon request . . .