NIKOS DANIILIDIS

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PROFILE

Scientist commited to extracting insights from data-intensive applications.
Background: atomic physics, condensed matter physics, electrical & computer engineering
Expertise: scientific programming & data analysis; modelling and characterization of complex processes; computer-aided control and optimization; scientific writing
Team worker: worked with large teams building complex experimental setups
Supervisor: guided graduate and undergraduate students in their projects
Presenter: 10+ years experience presenting at conferences & funding-review meetings
Manager: co-authored research grants, helped plan & set up UC Berkeley ion trapping lab

EDUCATION

Ph.D., Physics, *Brown University*, Providence, RI, 2008, *X. S. Ling grroup*

Sc.M., Physics, *Brown University*, Providence, RI, 2003

Diploma, Electrical and Computer Engineering,
National Technical University of Athens, Athens, Greece, 2001 *(5-year program)*

PROFESSIONAL EXPERIENCE

Post Doc (October 2009–present)
Department of Physics, University of California Berkeley, H. Häffner group

Junior Scientist (September 2007–September 2009)
IQOQI, R. Blatt group, Innsbruck, Austria

Post-Doc (October 2007-January 2008)
ETH, Zürich, A. Wallraff group, Switzerland

AWARDS

Marie Curie Intra European Fellowship for Career Development
April 2008–March 2010, *European Comission*

Forrest Award for Excellent Work Related to Experimental Apparatus
May 2008, *Brown University*, Providence, RI, USA

Award for Excellence as a Graduate Teaching Assistant
May 2002, *Brown University*, Providence, RI, USA

SKILLS

Scientific programming/Data analysis: Python, Matlab, R, SQL, Hadoop/MapReduce
Scientific writing: research articles, review articles, scientific commentaries, grant proposals
Modelling/Design: modelling-characterization of noise processes, electromagnetic simulations, computer-aided control, device design & development
Prototype building: rf & digital electronics, microfabrication, lasers, vacuum, cryogenics
Characterization: neutron scattering, surface treatment/analysis, low-level measurements

DATA EXPERIENCE

Data munging: xml, html, json, pdf, text
Data manipulation: Python Pandas, R, Matlab, SQL, Hadoop/MapReduce
Machine learning: Python scikit-learn, R

Projects: `http://nikosd.me/projects/index.html`
Github: `https://github.com/nikos-daniilidis`
Blog: `http://oligotropos.wordpress.com/`

PROFESSIONAL ACHIEVEMENTS

⋈ Co-authored grants, worth in excess of $ 1 M
⋈ Participated in planning/building UC Berkeley ion trapping group
⋈ Conducted/Analyzed data-intensive experiments: ion trap, neutron scattering, ultrasonics
⋈ Coauthored fourteen publications (see `http://nikosd.me/publications/index.html`)
⋈ Developped methods/algorithms/Matlab library for ion-trap electrostatic control (`https://github.com/HaeffnerLab/trap-simulation-tools-matlab`)
⋈ Guided, coordinated Python translation of library for ion-trap electrostatic control (`https://github.com/HaeffnerLab/trap-simulation-tools-python-27`)
⋈ Developped, fabricated ion-trap chips for UC Berkeley, MIT, Uni Mainz, Uni Innsbruck
⋈ Designed & built Surface-Science/Ion-trapping/UHV system
⋈ Designed cryostat for ion trapping
⋈ Designed & built cryogenic calorimeter

HOBBIES

Dancing, hiking, open-sea swimming, the outdoors