Nick Steiner, PhD. 557 W. 148th St. New York, NY 10031 Email: nick.steiner@gmail.com

Web: nicksteiner.com; github.com/nicksteiner

Phone: 646-715-8282

Proficient problem solver and communicator with a record of successful science projects using advanced mathematical tools and cutting-edge data systems. Expert data engineer and manager with 5 years of experience leading data production for several world-class scientific efforts.

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Science data co-lead for NASA Earth Venture Mission, Carbon in the Arctic Vulnerability
Experiment (CARVE). Assembled quality-controlled NASA data product to the Distributed Active Archive Center at Oak Ridge National Laboratory.
Conceptualized cutting edge algorithm to detect events in satellite time series data leading to new surface hydrology records and insight.
Designed a data system to process satellite data using advanced database technology (SciDB). Invented a water-craft environmental data collection platform for hazardous polar environments featured in National Geographic Magazine (June 2010) and demonstrated during a Greenland expedition.
Co-author and co-investigator on two proposals funded by the NASA Earth Science program with science budgets totaling \$1.6 million.
Reported research findings in prestigious peer-reviewed journals. Obtained high level public speaking skills via teaching and professional presentations. Generated scientific high-impact graphics/animation.
Research Scientist Earth and Atmospheric Science, The City College of New York, CUNY, New York, NY -Topics: Assessing Impacts of Climate-Induced Change on River Flow and in the High Mountain Asia Region, Monitoring Seasonal Soil Frost Dynamics in Arctic EcosystemsIdentified and successfully secured research funding -Co-supervised three PhD research students
National Aeronautics and Space Administration (NASA) Faculty Research Fellow Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA -Topic: The Remote Sensing of Surface Properties over the Alaskan Arctic in Support of the Carbon in the Arctic Reservoir Experiment (CARVE)
Postdoctoral Research Fellow Environmental Crossroads Initiative Advanced Science Research Center, CUNY, New York, NY -Awarded NASA Group Achievement Award for the Carbon in the Arctic Vulnerability Experiment -Appointed to National Snow and Ice Data Center User Working Group, Boulder, CO
Earth and Environmental Science, The Graduate Center, CUNY, 2012 Earth Science, The City College of New York, CUNY, 2007 Political Science, University of Colorado, Boulder, CO, 2004

TEACHING EXPERIENCE

Quantitative Methods for Geophysical Data Analysis: CUNY, EAS31115, 2013 (Co-Instructor)

Topics: Interpolation/Curve Fitting, Root Finding, Numerical Integration/Differentiation MATLAB for Environmental Science: CUNY, EAS31109, 2012 (Instructor)

Topics: Science Programming, Univariate/Bivariate Statistics, Hypothesis Testing

TECHNICAL SKILLS

Programming Languages/Platforms: Python(proficient), (Numpy, Sci-py, Pandas, Xarray, SQLAlchemy, Scikit-Learn), SQL (PostgreSQL, SQLite), MATLAB, SciDB (AFL/AQL), Bash, Linux/UNIX, C++(familiar)

Applied Mathematics (used in peer-review): Wavelet Transform Analysis, Regression Analysis, Hypothesis Testing and Confidence Intervals, Bootstrapping, Analysis of Variance (ANOVA) Statistical Models

PUBLICATIONS

Author/co-author of 10 peer-reviewed publications in academic journals, having 190 citations, h-index: 6 Selected Publication: Steiner, N., and M. Tedesco. "A wavelet melt detection algorithm applied to enhanced-resolution scatterometer data over Antarctica (2000–2009)." The Cryosphere 8.1 (2014): 25-40. (IF 5.541)