Nikolay Nezlin

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PERSONAL WEBSITE: https://nikolaynezlin.github.io/

OCEOGRAPHER / DATA SCIENTIST / PROGRAMMER

Expert data scientist and programmer with extensive experience analyzing and visualizing complex environmental data. Particular expertise applying extensive knowledge of earth and ocean environments to solve and map complex data scenarios. Strong statistical analysis including machine learning, programming, and research skills resulting in multiple publications in peer-review journals, book chapters and technical reports.

KEY COMPETENCIES

- ArcGIS / Satellite and Aerial Imagery
- Statistical Analysis / Research
- Machine Learning
- Python / R / MATLAB / Visual Basic / C++/SQL

- Web Tools / HTML / Data Visualization
- Spatial / Time Series Analysis
- Scientific / Technical Collaboration
- Technical Writing / Reporting / Publishing

PROFESSIONAL EXPERIENCE

Scientist, Global Science & Technology, Inc.   **2020 – 2025**

Working for NOAA Satellite Oceanography and Climate Division, analyzing data on water quality, temperature, and shoreline changes based on satellite imagery.

Oceanographer, RBR Ltd.   **2019 – 2020**

Analysis of the accuracy of oceanographic sensors, software for data processing.

Scientist, Southern California Coastal Water Research Project (SCCWRP)   **2002 - 2018**

Analyzed the impact of stormwater and wastewater on coastal ocean, performed geospatial and statistical analyses, and created visualization tools for available data.

Visiting Professor, Researcher and Lecturer - Institute of the Environment, UCLA   **2000 - 2009**

Analyzed various satellite data studying the effect of 1997-1998 El Niño along the California coast and lectured the course ENV184 "*The Basics of Satellite Oceanography*" for undergraduate students.

Senior Researcher, P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences   **1980 - 2002**

Progressively promoted to Senior Researcher with responsibilities for analyzing physical, chemical and biological data collected in different regions of the World Ocean. Participated in 14 marine expeditions (2-4 month excursions) to perform computer analysis and visualizations of collected data.

EDUCATION

Ph.D. Biological Oceanography - P.P. Shirshov Institute of Oceanology, Moscow, Russia (1983)
- Specialization: Computer methods of data analysis, Marine phytoplankton
- Dissertation title: *Structural and functional characteristics of coastal phytoplankton in the Black Sea*

M.S. in Oceanography - P.P. Shirshov Institute of Oceanology, Moscow, Russia (1981)
B.S. in Zoology - Moscow State University, Moscow, Russia (1977)

PUBLICATIONS AND AWARDS

- 60+ research publications in peer-reviewed journals and book chapters
- 20+ technical reports
- Award of the journal "*Estuarine, Coastal and Shelf Science*" as a Top Cited Author (2008 - 2012)