

Nicholas Grokhowsky, PhD.

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PROFESSIONAL QUALIFICATIONS

- Proficiency in computer programming languages (Python, Java, C++, R, SAS) for data use and task automation
- Strong experience using statistical and machine learning methods for observational and experimental analyses
- Deep knowledge of a wide range of technological tool kits (AWS, Google Cloud, Algorithms & Data Structures)
- Highly nuanced, interpretive skill set that bridges both social and physical sciences
- Outstanding visual, oral, and written communicator

PROFESSIONAL EXPERIENCE

Senior Risk Analyst | *Risk Placement Services* | May 2024 - Present

- Consult with brokers and agents to present and describe analytical outputs for catastrophic risk models and reports.
- Automate data scrubbing, risk modeling, and reporting using exploratory analysis, LLMs, APIs, and HTML/CSS..
- Model catastrophic events to determine financial risk for insured locations and inform the insurance decision making process.

Catastrophic Risk Analyst | *IAT Insurance Group* | Raleigh, NC | April 2023 - February 2024

- Utilized data analytics and catastrophic risk modeling software to assess financial risk associated with catastrophic events (i.e., wildfire, tropical cyclone, earthquake, and severe thunderstorm).
- Designed and developed tropical cyclone and wildfire tracking software applications to enhance productivity for the catastrophic risk management team, underwriting departments, and claims department.
- Reviewed and communicated findings from climate change studies and highlighted their implications for the insurance industry.
- Automated analysis processes by integrating API's for risk analysis software, and by streamlining data retrieval and analysis for enhanced efficiency and accuracy.
- Customized methods for calculating exceedance probability to develop a customized view of risk.

Post-Masters ORISE Fellow | U.S. Environmental Protection Agency | Durham, NC | July 2019 - April 2023

- Designed and executed a research project utilizing high-resolution satellite imagery and machine learning to assess chemical contaminant concentrations and dispersions.
- Analyzed complex datasets from multiple sources, including satellite imagery, sociodemographic, economic, and anonymized health information.
- Developed statistical and machine learning models to investigate the environmental effects of chemical contamination, focusing on lead

Strategic Account Specialist | American Insurance Advisers | Boca Raton, FL | September 2006 - July 2019

- Successfully expanded the client base by approximately 50% by proactively researching and targeting industries not typically pursued by the firm. This strategic approach resulted in the generation of significant premiums from new industries, contributing to a remarkable 25% increase in the firm's overall revenue.

EDUCATION

Doctor of Philosophy in Geospatial Analytics | *North Carolina State University* | Raleigh, North Carolina July 2024
"Spatiotemporal analysis of innovation using an automated publication screening"

Graduate Certificate in Computer Programming | *Harvard University* | Cambridge, Massachusetts Jan 2019

Master of Science in Geomatic Sciences | *University of Florida* | Gainesville, Florida Dec 2018

Bachelor of Art in Interdisciplinary Social Sciences | *Florida Atlantic University* | Boca Raton, Florida Dec 2005