THOMAS M. FRANCIS

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LinkedIn: www.linkedin.com/in/tom-francis-5b175028/ Portfolio: https://tmfrancis.github.io/ Data scientist with extensive experience with geospatial datasets. Demonstrated strengths in: **SUMMARY** remote sensing integrating raster, vector, point cloud, and non-spatial data machine learning data acquisition, validation, conversion, application, and analysis Proven communicator with excellent analytical skills. Enthusiastic and effective team player. GIS Software: ArcGIS Pro, ArcGIS Online, Google Earth Pro, Survey123, QGIS, GeoServer, Leaflet **SKILLS** Programming Languages: R, Python, Arcade, HTML/CSS, Java/JavaScript, SQL, PostgreSQL Software: GitHub, MS-Excel, MS-Powerpoint, Zotero 6-22 - 6/25TECHNICAL CONSULTANT, Industrial Economics, Incorporated, Cambridge, MA **EXPERIENCE** Created presentation-ready analyses and visualizations for environmental litigation, natural resource damage assessments, environmental impact statements, and policy and regulatory impact reports for multiple practices in a consultancy context. Trained and guided research analysts in GIS. RESEARCH ASSISTANT, Clark University, Worcester MA 1/22 - 6/22Support the development of quantitative analysis metrics for Brazilian land use dataset. Research kappa-based metrics of accuracy assessment for academic paper series. 10/21 - 12/21**TEACHING ASSISTANT**, Computer Programming for GIS **TEACHING ASSISTANT**, Python Programming 8/21 - 10/21 Led lab sessions for 10-15 students and held office hours to assist with coursework. Graded lab assignments for undergraduate, master's, and doctoral students. SATELLITE IMAGERY AND GEOGRAPHIC INFORMATION SYSTEMS CONTRACTOR, United 6/21 - 8/21Nations Institute for Training and Research, UNOSAT, remote Investigated and documented petroleum capacity, production, and transfer in Central Africa using remote sensing. Delivered detailed, actionable analysis based on a diverse set of geospatial and non-spatial datasets. **DEPUTY DIRECTOR**, Massachusetts Bicycle Coalition, Inc, Boston MA 8/16 - 8/20Managed essential programs for small non-profit with statewide mandate. Coordinated with federal, state, and local government officials and advocacy groups to improve transportation infrastructure. Active member of MassDOT Design Review Committee and Massachusetts Bicycle and Pedestrian Advisory Board. DIRECTOR, OIL AND GAS RESEARCH, Fossil Free Indexes, LLC, Port Washington NY 1/14 - 12/17Developed algorithms for identifying and ranking fossil fuel reserves held by public corporations. Maintained database of industry specific operational statistics. Interpreted scientific literature and provided timely written commentary on fossil fuels and climate change. MASTER OF SCIENCE, GEOGRAPHIC INFORMATION SCIENCE 2022 **EDUCATION** Clark University, Worcester, MA STRATEGIC MARKETING EXECUTIVE PROGRAM 1998 Cornell University, Johnson School of Management, Ithaca NY **BACHELOR OF ART, ECONOMICS** 1987 Swarthmore College, Swarthmore, PA PUBLICATION Pontius, R. G., Jr, Francis, T., & Millones, M. (2025). A call to interpret disagreement components during classification assessment. International Journal of Geographical Information Science, 1–18.

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