

THOMAS M. FRANCIS

Email: BostonTomF@gmail.com

LinkedIn: www.linkedin.com/in/tom-francis-5b175028/

Phone: 781-504-6413

Portfolio: <https://tmfrancis.github.io/>

SUMMARY	Geospatial analyst specializing in remote sensing using raster, vector, and non-spatial data. Excellent communication and analytic skills; interest in the built environment, sustainable systems, and climate change.	
SKILLS	GIS Software: ArcGIS Pro 2.9.0, ArcGIS Online, ArcPy, Google Earth Engine Code, Leaflet, QGIS Programming Languages: Python 3.9, R 4.1.0, HTML, CSS, JavaScript, SQL, PostgreSQL Software: GitHub, MS-Excel, PgAdmin 4, SPSS 26, Zotero	
EDUCATION	MASTER OF SCIENCE, GEOGRAPHIC INFORMATION SCIENCE Clark University, Worcester, MA 2022 STRATEGIC MARKETING EXECUTIVE PROGRAM Cornell University, Johnson School of Management, Ithaca NY 1998 BACHELOR OF ART, ECONOMICS Swarthmore College, Swarthmore, PA 1987	
EXPERIENCE	TECHNICAL CONSULTANT , Industrial Economics, Incorporated, Cambridge, MA 6-22 - present Conduct geospatial analyses in natural resource management, and public policy consultancy. Visualize data in a collaborative environment and develop internal GIS training program. RESEARCH ASSISTANT , Professor Gil Pontius, Clark University, Worcester MA 1/22 – 6/22 Support the development of quantitative analysis metrics for Brazilian land use dataset. Research kappa-based metrics of accuracy assessment for academic paper series. TEACHING ASSISTANT , Computer Programming for GIS 10/21 – 12/21 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 Nations Institute for Training and Research, UNOSAT, remote 6/21 – 8/21 Investigated and documented petroleum production, extraction and transfer using ArcGIS Pro and Google Earth Engine Code. Focused on humanitarian themes in Central Africa. Accessed, processed and interpreted Sentinel -2 visual bands, Sentinel-3 Synthetic Aperture Radar data, Sentinel-5 TROPospheric Monitoring Instruments, NASA VIIRS Nightfire and DayNightBand data, and Planet PlanetScope 4-band products. DEPUTY DIRECTOR , Massachusetts Bicycle Coalition, Inc, Boston MA 1/18 – 8/20 Managed essential programs for small non-profit with statewide mandate. Coordinated with federal, state, and local government officials and advocacy groups to improve transportation infrastructure. BUSINESS MEMBERSHIP COORDINATOR , Built relationships and fundraised with business community. Advocated for cyclists statewide; taught seminars on bicycle safety and technique. 8/16 – 12/17 DIRECTOR, OIL AND GAS RESEARCH , Fossil Free Indexes, LLC, Port Washington NY. Developed 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. 1/14 – 12/17 FULL TIME PARENT , Needham MA 7/99 – 12/13 INDEPENDENT CONSULTANT , Needham MA 7/99 – 6/00 STRATEGIC MARKETING MANAGER , Lotus Development Corporation, Cambridge MA 5/96 – 7/99 ACCOUNT MANAGER , The WEFA Group, New York, NY 4/92 – 5/96 ASSOCIATE , DRI/McGraw-Hill, New York NY 3/88 – 4/92	