

# THOMAS M. FRANCIS

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

SUMMARY	Geospatial data analyst with experience in petroleum and transportation sectors; remotely sensed, economic and financial data. Excellent communication and analytic skills; interest in built environment, sustainable systems and climate change.	
SKILLS	<b>GIS Software:</b> ArcGIS Pro 2.9.0, ArcGIS Online, ArcPy, Google Earth Engine Code, Leaflet, TerrSet 10.0.1 <b>Programming Languages:</b> Python 3.9, R 4.1.0, HTML, CSS, JavaScript <b>Software:</b> GitHub, MS-Excel, SPSS 26	
EDUCATION	<b>MASTER OF SCIENCE, GEOGRAPHIC INFORMATION SCIENCE</b> Clark University, Worcester, MA <b>STRATEGIC MARKETING EXECUTIVE PROGRAM</b> Cornell University, Johnson School of Management, Ithaca NY <b>BACHELOR OF ART, ECONOMICS</b> Swarthmore College, Swarthmore, PA	Expected 5/22  1998  1987
EXPERIENCE	<b>RESEARCH ASSISTANT</b> , Professor Gil Pontius, Clark University, Worcester MA Support development of quantitative analysis metrics for Brazilian land use dataset. Research kappa-based metrics of accuracy assessment for academic paper series. <b>TEACHING ASSISTANT</b> , Computer Programming for GIS <b>TEACHING ASSISTANT</b> , Python Programming Led lab sessions for 10-15 students and held office hours to assist with course work. Graded lab assignments for undergraduate, masters and doctoral students.  <b>SATELLITE IMAGERY AND GEOGRAPHIC INFORMATION SYSTEMS CONTRACTOR</b> , United Nations Institute for Training and Research, UNOSAT, remote 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.  <b>DEPUTY DIRECTOR</b> , Massachusetts Bicycle Coalition, Inc, Boston MA Managed essential programs for small non-profit with statewide mandate. Met with state government officials to address advocacy for federal and local infrastructure and safety programs. Coordinated with other advocacy groups on active transportation issues. <b>BUSINESS MEMBERSHIP COORDINATOR</b> , Built relationships and fundraised with business community. Advocated for cyclists statewide; taught seminars on bicycle safety and technique in schools and corporate environments.  <b>DIRECTOR, OIL AND GAS RESEARCH</b> , 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.  <b>FULL TIME PARENT</b> , Needham MA <b>INDEPENDENT CONSULTANT</b> , Needham MA Researched and delivered competitive intelligence for business to business information services. Educated sales personnel and published quarterly newsletter outlining industry developments.  <b>STRATEGIC MARKETING MANAGER</b> , Lotus Development Corporation, Cambridge MA	1/22 – 6/22  10/21 – 12/21 8/21 - 10/21  6/21 – 8/21  1/18 – 8/20 8/16 – 12/17  1/14 – 12/17  7/99 – 12/13 7/99 – 6/00  5/96 – 7/99

**ACCOUNT MANAGER**, The WEFA Group, New York, NY  
**ASSOCIATE**, DRI/McGraw-Hill, New York NY

4/92 – 5/96  
3/88 – 4/92