THOMAS M. FRANCIS

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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

GIS Software: ArcGIS Pro 2.9.0, ArcGIS Online, ArcPy, Google Earth Engine Code, Leaflet, TerrSet 10.0.1
Programming Languages: Python 3.9, R 4.1.0, HTML, CSS, JavaScript
Software: GitHub, MS-Excel, SPSS 26

EDUCATION

MASTER OF SCIENCE, GEOGRAPHIC INFORMATION SCIENCE
    Clark University, Worcester, MA — Expected 5/22

STRATEGIC MARKETING EXECUTIVE PROGRAM
    Cornell University, Johnson School of Management, Ithaca NY — 1998

BACHELOR OF ART, ECONOMICS
    Swarthmore College, Swarthmore, PA — 1987

EXPERIENCE

TEACHING ASSISTANT, Python Programming, Clark University, Worcester MA — 10/21 – 12/21
TEACHING ASSISTANT, Computer Programming for GIS — 8/21 - 10/21
    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.

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 TROPOsheric 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. 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.
BUSINESS MEMBERSHIP COORDINATOR, Built relationships and fundraised with business community. Advocated for cyclists statewide; taught seminars on bicycle safety and technique in schools and corporate environments. — 8/16 – 12/17

DIRECTOR, OIL AND GAS RESEARCH, Fossil Free Indexes, LLC, Port Washington NY. — 1/14 – 12/17
    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.

FULL TIME PARENT, Needham MA — 7/99 – 12/13
INDEPENDENT CONSULTANT, Needham MA — 7/99 – 6/00
    Researched and delivered competitive intelligence for business to business information services. Educated sales personnel and published quarterly newsletter outlining industry developments.

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