EMMA TAIT

DATA SCIENTIST | DATA VISUALIZATION ENGINEER

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www.emma-tait.com

PROFILE

Data scientist with 4+ years of experience combining the technical skills of programming and data analysis with the creative eye of an artist to build simple, intuitive, user-oriented experiences that communicate complex data in ways that support actionable insights and tell compelling stories. Known for being self-directed and adaptable, using both logic and creativity to solve problems and design solutions.

SKILLS

- Data visualization, including Highcharts, Datatables
- UI/UX design
- Design tools: Figma, blender, Krita
- Cartography and spatial analysis
- ESRI products and Google Earth Engine
- Git version control
- Programming languages: HTML, CSS, Javascript, Python, R, MySQL, PHP,
- Web mapping, including ArcGIS Online, Carto
- Data analysis
- Full stack and front-end web development
- Costume design and construction
- Watercolor and illustration (pen and ink)

PROFESSIONAL EXPERIENCE

Data Scientist | Forest Ecosystem Monitoring Cooperative (FEMC) | Jan 2019 – Present
- Develop and maintain scripts and code for data analysis, aggregation and management as well as provide coding, web and database development, and modeling for FEMC projects.
- Design, prototype, and create custom front-end mapping portals, services, and other data visualizations as well as leading internal sessions and client review for feedback on design effectiveness of tools and products
- Redesign and rebuild regional Forest Health Atlas with current best practices, user-centered design and updated data visualization and web mapping libraries.
- Analyze 12 key forest disturbance factors and create 30 interactive charts and maps to highlight key trends.
- Rebuild and expand analysis and user-centered design of the Forest Indicators Dashboard, summarizing over 30 indicators of the status of forests in Vermont, New Hampshire, and New York.
- Lead end-to-end custom design and implementation of a data management portal for the standardization of regional continuous forest inventory programs.
- Contribute professional and technical writing and analysis as well as cartographic products and other engaging, high quality data visualizations for reports and outreach materials.

Interim Program Manager | Forest Ecosystem Monitoring Cooperative | Apr 2020 – Oct 2020
- Managed four projects including, strategic planning for tool and project development, designing and executing work plans, task delegation, writing reports, facilitating internal and external user testing and product review, and communicating and collaborating with partners and stakeholders.

GIS Analyst and Developer | Forest Ecosystem Monitoring Cooperative | Apr 2016 – Sept 2017
- Developed models and tools in Python and ArcGIS to aggregate, standardize and analyze 100 years of historical and current forest health aerial survey data. Built data-driven, interactive web map.

PROJECTS AND PUBLICATIONS

2021 | Tait, Emma R., and Ingrid L. Nelson. *Nonscalability and generating digital outer space natures in No Man's Sky*. Environment and Planning E: Nature and Space. DOI 10.1177/25148486211000746

2019 | Costume Designer. *The Producers*. ADC Theatre. Cambridge UK

EDUCATION

UI/UX Design Course | DesignCourse.com | 2022
Data Visualization and Communication | University of Vermont | 2021
Master of Philosophy | Geographical Research | University of Cambridge | 2018
Bachelor of Arts | Geography (Minor: GIS, Computer Science) | University of Vermont | 2017