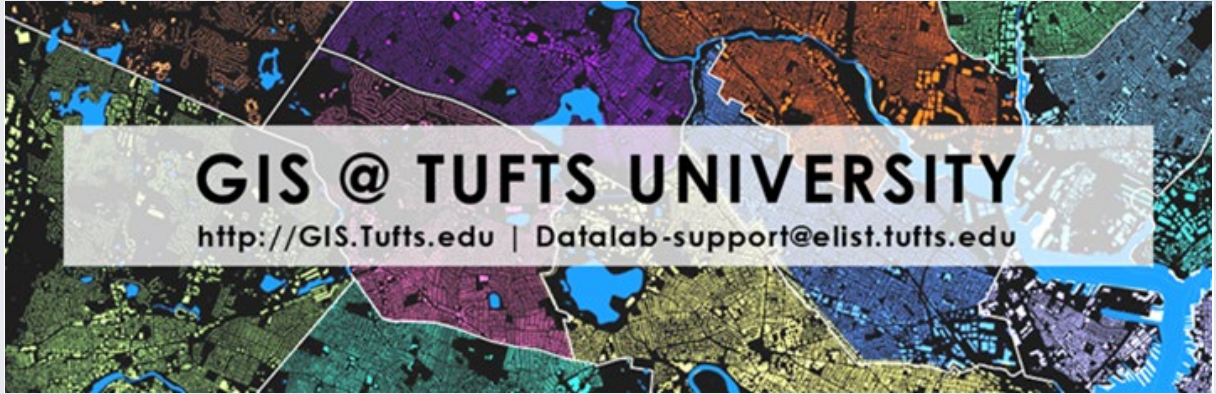


From: tuftsgis-request@elist.tufts.edu on behalf of [Talmadge, Carolyn C.](#)
To: tuftsgis@elist.tufts.edu
Subject: Tufts GIS Newsletter - March 18, 2025
Date: Tuesday, March 18, 2025 11:52:38 AM
Attachments: [image009.png](#)
[image006.png](#)
[image001.png](#)
[image005.png](#)
[image007.png](#)
[image011.png](#)



GIS & Data Lab Newsletter

Tufts Data Lab | TTS Research Technology | March 18, 2025

Tufts New GIS Website & LinkedIn Group!

Check out the new and improved [Tufts GIS website](#) – with more resources than ever!

Special thanks to Chad Fisher for his efforts building this resource

Learn GIS at Tufts

Get started on your journey to learn geospatial technologies by signing up for our courses, enrolling in a GIS certificate program, or by engaging in faculty research

GIS Courses	Tufts Geospatial Certificates	GIS Research at Tufts
 <p>Dr. Marcia Moreno-Blaez celebrates the end of classes with her GIS students</p> <p>Tufts offers over 28 geospatial courses a year ranging from novice to advanced, in different modalities, and across the academic year, including the summer</p> <p>Enroll in a course</p>	 <p>Come explore the world of GIS at Tufts University</p> <p>The Department of Urban and Environmental Policy and Planning (UEP) at Tufts University offers two multidisciplinary geospatial certificate programs for learning GIS</p> <p>Learn about our GIS Certificates</p>	 <p>Dr. Marcia Moreno-Blaez's 2023 Nature Publication</p> <p>Tufts faculty regularly use geospatial technology in their research and publications. Learn more about our faculty interests and research by exploring their recent publications</p> <p>View Faculty Research</p>

Join our Tufts GIS Community on LinkedIn

Calling all GeoJumbos! We've created a new Tufts geospatial community group for **students**, alumni, faculty, and staff to share all things spatial.

Use this page to expand your professional networks, view or post GIS job opportunities, share learning opportunities, or promote intriguing research, applications, or stories.

Tufts has over 2500 GIS Alumni! Let's build a vibrant community and stay connected!

[Join us on LinkedIn](#)

Geospatial Competitions & Conferences



Call for Abstracts is Open – Submit Now!

The [Northeast Arc Users Group \(NEARC\) Spring Conference](#) is an annual, one-day conference packed with professional development and networking opportunities for all levels of GIS users. The Spring NEARC Host Committee invites you to submit a presentation for the in-person event at **Eastern Connecticut State University in Willimantic, Connecticut on Wednesday, May 28, 2025.**

Deadline to submit: Monday, March 31st, 11:59 PM

NEARC Scholarships

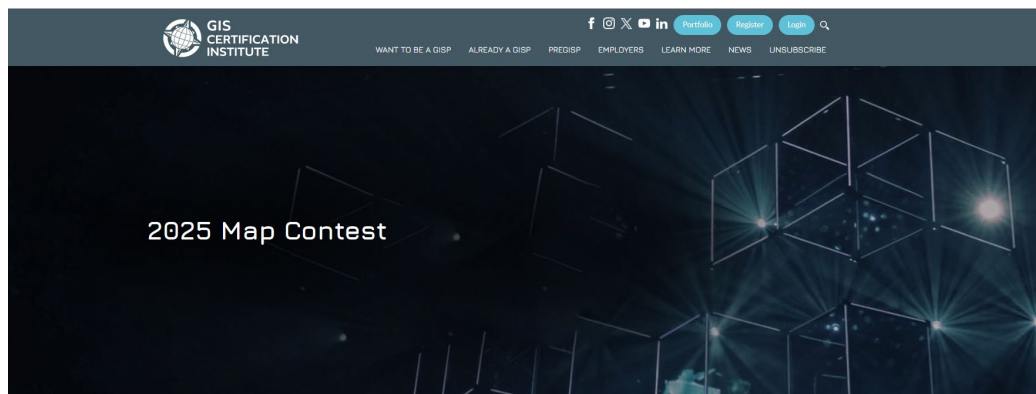
NEARC offers a limited number of scholarships, which cover the cost of registration, to support community members' attendance at our conferences.

[Link to Scholarship Form](#)

All student presenters attend for free!

Enter the [GIS Certificate Institute Map Contest!](#)

Entry Deadline: Submissions due April 30, 2025. Only one entry per contestant will be accepted.



GISCI HOSTS AN ANNUAL MAP COMPETITION INVITING MEMBERS OF THE GIS COMMUNITY TO SUBMIT AND SHARE A MAP OF THEIR CREATION.

Jobs and Internships!

GIS MANAGER | MBTA | BOSTON, MASS

**This job opportunity was shared with us by a Tufts Alumni*

The GIS Manager is responsible to lead the development, implementation, and management of the Geographic Information System (GIS) for the authority. This role plays a critical part in supporting MBTA's asset management, reliability engineering, transportation planning, operations, and maintenance activities. The GIS Manager will oversee all GIS activities, including data management, spatial analysis, updates to track schematics, and application development.

This role will report to the Deputy Director of Configuration Engineering under the Engineering Department. This role will provide technical guidance and play a pivotal role in maturing MBTA's enterprise asset management (EAMS) software. This role will work in conjunction with Asset Information Managers, Reliability Engineers, Information Technology, Maintenance departments, and third-party assessors to ensure efficient user experience of any asset data represented via any GIS applications or formats.

Salary: \$145,163.20 Annually

Opening Date: 03/10/2025

Apply Here: <https://www.governmentjobs.com/careers/mbta/jobs/4863883/gis-manager?keywords=GIS&pagetype=jobOpportunitiesJobs>

SEASONAL GIS APPLICATIONS ASSISTANT | MASS DCR

Join Massachusetts Department of Conservation and Recreation's Division of Water Supply Protection as a Seasonal GIS Applications Assistant. The successful candidate will spend the majority of their time auditing and correcting web maps and applications in ArcGIS Online to meet accessibility standards. This will involve creating accessible products and working with Division staff to aid them in updating their content to meet standards. This important work will help ensure the Division's success in meeting the Americans with Disabilities Act Title II deadline of April 2026. This is a great opportunity to become proficient in accessible GIS design.

Dates of Employment: 4-6-25 to 10-18-25

Salary: \$2,424.30 Biweekly

[To learn more, please read the full job posting and apply here.](#)

GEOGRAPHIC INFORMATION SYSTEM (GIS) ANALYST | THE METROPOLITAN DISTRICT (MDC) | HARTFORD, CT

The Metropolitan District (MDC) is once again looking to hire a GIS Analyst. We are looking for someone with a strong utility background, and experience with ArcGIS Online, specifically implementing mobile work solutions and experience with ArcGIS Enterprise.

This is highly responsible professional geographic information systems analysis, digital database analysis and administration work involving the maintenance of software and hardware of a computerized digital database.

Work involves responsibility for effective and efficient maintenance of a geographic information system. Duties include development and implementation of upgrades to system components, providing support to project engineers and outreach staff, map creation, data creation, data analysis, data management, and database development. This position also has the responsibility for making difficult geographic information system quality control and assurance decisions. This work requires that the employee have knowledge, skill and ability in computer platforms, Windows operating systems, or comparable, automated mapping and facilities management software.

Hours are 8:00-4:10, 37.5 hr/week.

Job posting Closes 21-Mar-2025 (EST)

For information and to apply, please go to: <https://themdc.applicantpro.com/jobs/3668071>

GEOSPATIAL ANALYST | KCC | BOSTON, MASS

KCC seeks a Geospatial Analyst to join our growing team of catastrophe model developers. KCC

develops catastrophe reference models to estimate the probabilistic risk to natural perils. KCC scientists and engineers create stochastic sets of hypothetical catastrophe scenarios that are overlaid on geospatially distributed building replacement statistics. These geospatial databases are developed by the exposure development team for the United States and the rest of the world. This position is for a Geospatial Analyst to be part of exposure development.

Responsibilities

- Develop geographically detailed building exposures that are vulnerable to natural catastrophes
- Research global construction trends
- Develop innovative and efficient computational methods to process large spatial datasets across multiple data types and structures
- Obtain, process, analyze, and format vector and raster datasets from external data providers
- Prepare reports and presentations that describe results of completed and ongoing projects
- Support model development and client facing teams with geospatial calculations and visualizations

Apply Here: <https://www.karenclarkandco.com/careers/model-development-geospatial-analyst>

GEOSPATIAL DATA ENGINEER | BEZERO CARBON | LONDON, ENGLAND

BeZero is looking for a mid-level geospatial data engineer to join our existing geospatial engineering & machine learning team. This team is part of our broader data organisation and is responsible for building geospatial data and machine learning products for our client-facing platform and internal teams. The team works closely with colleagues in our ratings, research, product, and technology teams. You'll be responsible for building geospatial data products and algorithms that directly affect the way our ratings and research teams analyse carbon offset projects. You'll therefore work closely with scientists in our Geospatial and Earth Observation team and ratings scientists in our Ratings team. We process large-scale satellite imagery data sets (think about any of the public NASA and ESA missions) of different types (optical imagery, SAR and LiDAR) for most of our use-cases, but also leverage raster and vector data from partnerships we have with data vendors.

Apply Here: https://bezerocarbon.teamtailor.com/jobs/5641830-geospatial-data-engineer?utm_content=327345963&utm_medium=social&utm_source=linkedin&hss_channel=lcp-54117489

GIS DATA SPECIALIST | PARKING OPERATIONS | CITY OF NEW YORK

The Parking Planning and Policy Unit within Parking Operations, Planning and Analysis seeks a data-oriented professional who has good familiarity with ArcGIS to help support decision-making related to curb management in New York City. The prospective candidate will be responsible for managing division datasets, performing data analysis tasks, and improving divisional data-related processes. The candidate will be expected to perform research and analysis studies, conduct data mining exercises, create, and maintain vital databases and contribute to ongoing data analysis efforts underway within the Department of Transportation.

Duties Will Include

- Update and maintain division GIS datasets and web maps using ArcGIS.
- Perform analyses related to operational and financial metrics (e.g. metered space revenue and geographical distribution).
- Facilitate cross-division and cross-Agency GIS data processes.
- Improve upon current data operations to ensure best practices are followed and inefficiencies are addressed where possible.
- Build out divisional tools to support current databases, operations, workflows, and staff.

Apply Here: <https://www.linkedin.com/jobs/view/3881288145>

DATA SCIENTIST | NATIONAL GRID | NY – MULTIPLE LOCATIONS

National Grid is hiring a Data Scientist for our Gas Performance Reporting Analysis in the following locations: **Brooklyn NY, Syracuse NY, or Melville NY.**

The Data Scientist will be responsible for developing and implementing machine learning models and automation tools to enhance business processes. This role requires a strategic thinker with an understanding of advanced analytics, machine learning and process automation. The ideal candidate

will have experience in translating complex data into actionable insights to drive business growth.

Salary:

Downstate NY: \$109,000 - \$128,000 a year

Upstate NY: \$90,000 - \$106,000 a year

Apply Here: <https://www.linkedin.com/jobs/view/4184499091>

MORE INTERNSHIPS

- Environmental Defense Fund: [Ocean Climate Solutions Science Intern](#)
- Wetdogweather: [Summer internship](#)
- Massachusetts Clean Energy Center: [30 climate & energy internships](#)
- Smithsonian: [Wildlife monitoring intern](#)
- Virginia Tech Seafood AREC: [Summer Internship Program](#)
- [Geo-LDN \(Bonn\)](#)
- Aon (Milan): [Junior Catastrophe Risk Analyst Intern](#)
- [Microsoft AI for Good Internship \(Nairobi\)](#)

Internship opportunities graciously gathered by ALI AHMADALIPOUR's Geospatial Jobs newsletter.

[Subscribe here](#) for the full newsletter

REPOST: DANGERMOND FELLOWSHIP | NATIONAL AUDUBON SOCIETY & ESRI

The Dangermond Fellowship is an exciting paid opportunity provided through the partnership between National Audubon Society and Environmental Systems Research Institute (Esri). **The goal of the program is to provide Fellows with exposure to enterprise-scale geographic information systems (GIS), conservation, science, and applied technologies in Audubon's Enterprise GIS department serving thousands of users.** Fellows will gain experience through hands-on application of skills and knowledge on a professional team in the areas of data management practices; geographic information product development; spatial analytics, querying, and programming; user engagement, communications, and insights generation; GIS server and cloud technologies; and user and content curation. Throughout the year, Fellows will receive extensive and immersive training in the full ArcGIS platform. They will have the potential to attend industry conference(s) and establish mentorship relationships with leaders in the GIS and conservation sectors.

This prestigious fellowship is designed to foster the next generation of leaders in GIS for the nonprofit/conservation sectors and make the sector a more inclusive and equitable space for professionals of different backgrounds. Individuals from diverse disciplines— including but not limited to computer science, environmental science, data science, and geospatial information science—are encouraged to apply. The position is a one-year commitment running from June 2025 until June 2026. Fellows will work full-time over the duration of the year and are eligible for the benefits and time off categories associated with commensurate full-time roles. Applicants must submit a resume and cover letter to be considered.

Compensation: \$25.35 / hour

More Info & Apply Here: https://audubon.wd5.myworkdayjobs.com/en-US/Audubon/job/Dangermond-Fellow_JR649

Tufts Summer Geospatial Class Opportunities

NEW THIS SUMMER!

GIS 101

AT THE TUFTS EUROPEAN
CENTER IN TALLOIRES, FRANCE

June 30 to July 14, 2025




EARN TUFTS
CREDIT



2 WEEKS IN
THE FRENCH
ALPS



NO FRENCH
REQUIRED



TAUGHT BY
PROFESSOR
SUMEETA
SRINIVASAN



OPEN TO
GRADUATE AND
UNDERGRADUATE
STUDENTS

Tufts
UNIVERSITY



European Center
Talloires, France

LEARN MORE:
europeancenter.tufts.edu/GIS





Learn from the Instructor that literally wrote the book on Web GIS **UEP231** **- INTERACTIVE WEB MAPPING**

Offered Online from 07/01/2024 - 08/08/2024 on Tuesdays from 1:30 – 5PM

Here's why you need to enroll in this class:

- If you want to have a career in GIS, knowing ArcGIS Pro is no longer enough! Level up your GIS skills by enrolling in interactive web mapping. Learn what it means to truly harness the power of GIS and the full power of the ESRI ArcGIS Platform!
- Learn from an ESRI instructor the ins and outs of ArcGIS Online and various ESRI ArcGIS web apps and dashboards! Get experience directly from an ESRI professional and be two steps ahead of the curve when it comes to the future of GIS
- Learn today's leading cloud and mobile GIS platforms, including ArcGIS Online, ArcGIS Enterprise, ArcGIS Instant Apps, StoryMaps, Experience Builder, Dashboards, Survey123, and Field Maps.
- Hands-On and immediately productive: **No coding experience is required.** Our course adopts a no-code/low-code approach, enabling you to create engaging web or mobile apps in each session, making you productive from day one.
- Develop Future-Ready Skills: Equip yourself with essential skills in 2D/3D mapping, spatial-temporal visualization, mobile GIS, VR, AR, and spatial data science to stay ahead in the technology curve.

Course Instructor: New UEP instructor Dr. Pinde Fu stands at the forefront of both the industry and academic aspects of Geographic Information Systems (GIS). As a Senior Principal Software Developer Engineer and Tech Lead at Esri, Dr. Fu has extensive real-world project experience, collaborating with numerous federal, state, local, and commercial organizations. He has effectively applied Web GIS technologies across various critical sectors, including health, environmental studies, emergency management, and natural resource management. Beyond his industrial achievements, Dr. Fu is highly active in the educational aspects of GIS. He has authored books including "Getting to Know Web GIS," which has guided countless students and professionals through the intricacies of modern GIS technologies and applications.



UEP 232/ DEIJ 275 – INTRO TO GIS

Offered Summer Session I: 05/21/2025 - 06/27/2025 on M/W from 9am – 12:30pm

Introduces Geographical Information Systems (GIS) theory, methods and their applications. Topics include GIS data structures, geodesy, cartography and spatial analysis using rasters and vectors. Includes extensive laboratory exercises that apply concepts presented in the lectures using ArcGIS. The course will include a final project using GIS to apply student interests.

Taught by Dr. Rebecca Shakespeare

Outside Learning Opportunities

FREE AND OPEN-SOURCE GIS TOOLS – PART 1

April 3, 2025, 1-1:45 PM

Speakers: Carl Zimmerman & Ashley Benítez, CT GIS Office

This session is taught by one of Tufts GIS former GIS Instructors, Carl Zimmerman!

This 45-minute introductory webinar is the first in a two-part series on free and open source GIS. It will cover the new and broad ecosystem of GIS and geospatial tools (e.g. viewers, scripting tools and desktop applications), explain how to choose the right tools for your set of uses cases, access public data, and how to conduct simple spatial analyses with QGIS. Attendees will learn about free geospatial software and GIS tools which are widely available, reliable, and powerful. Many have the capabilities of expensive commercial products from the industry leaders. Free tools such as these provide substantial analytic and visualization capabilities to organizations needing location data and visualization solutions such as non-profits, small businesses, land-trusts, and local governments. These tools can be used in conjunction with a variety of public data sets including elevation and parcel data from Connecticut, the federal government, and other entities. We will demonstrate a few of the most relevant capabilities such as analysis, big data visualization, and basic map-making.

Learn more and register for these webinars at <https://clear.uconn.edu/mapping/webinars/>

Other Opportunities

UNDERGRADUATE ENVIRONMENTAL PHOTO CONTEST

WIN UP TO \$150

APRIL 1

SUBMIT BY
MIDNIGHT



Tufts UNIVERSITY | SCHOOL OF ARTS AND SCIENCES
Environmental Studies

GO.TUFTS.EDU/ENVIROPHOTO

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