Jobs - Job Details - Tenure Track Faculty - Department of Mathematics (Data Science)

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Job no: 518915
Work type: Instructional Faculty – Tenured/Tenure-Track
Location: Humboldt
Categories: Unit 3 - CFA - California Faculty Association, Faculty - Mathematics/Statistics, Tenured/Tenure-Track, Full Time

Vacancy Announcement

Faculty Tenure-Track Position Starting August 2023
Department of Mathematics (Data Science)

Cal Poly Humboldt is a Hispanic-Serving Institution (HSI) that strives to foster an equitable and inclusive community that supports our students of diverse backgrounds. Cal Poly Humboldt is committed to achieving the goals of equal opportunity and endeavors to employ faculty and staff of the highest quality.
committed to working in a multicultural and multiracial community that reflects the diversity of the state.

**DESCRIPTION:** Cal Poly Humboldt’s Department of Mathematics invites applicants for an academic-year, tenure-track faculty position with emphasis in **Data Science**. The Department is launching a new Data Science major in Fall 2023 as part of the programmatic expansion during our second year as California’s third polytechnic university. At its core, our Data Science program prioritizes and teaches “Data for Good” in which data is used to improve society. We are seeking a candidate with a background in mathematics, statistics, computer science, artificial intelligence or a related discipline who has a demonstrated interest or ability in cross-disciplinary collaboration, particularly in societal grand challenge areas such as fire resilience, climate action, access to justice, and clean energy. The successful candidate will have the opportunity to shape and expand the program as it grows. Cal Poly Humboldt’s Mathematics program is lively, student-centered, and distinguished for its production of future scholars, its pioneering work in math education, and its expertise in the application of mathematical principles to environmental sciences. Opportunities for interactions and collaboration across the University include, but are not limited to, the Cal Poly Humboldt Fire Resilience Institute and the Schatz Energy Resource Center.

As an institution, Cal Poly Humboldt is committed to eliminating the equity gap in all student populations with dynamic, student-centered practices and policies that fully engage the campus community. The ideal candidate will share Cal Poly Humboldt's commitment to helping its racially and socioeconomically diverse students succeed in their degree and career objectives.

We value the ability to serve students from a broad range of cultural heritages, socioeconomic backgrounds, genders, ability and orientations. Therefore, we prioritize applicants who demonstrate they understand the benefits diversity brings to a professional educational community. The successful candidate will be an equity-minded individual committed to collaborating with faculty, classified staff, administration, and students who are also committed to closing equity gaps.

**RANK, SALARY AND BENEFITS:** We seek to fill this position at the Assistant Professor rank; however, rank and salary are dependent on the appointee’s qualifications and experience, and outstanding candidates at all academic ranks will be considered. The current California State University Salary Schedule is available at: [https://hraps.humboldt.edu/faculty-salary-schedule](https://hraps.humboldt.edu/faculty-salary-schedule)

Cal Poly Humboldt provides an excellent benefits package for faculty. Information about benefits plans can be found at: [http://www.humboldt.edu/forms/node/934](http://www.humboldt.edu/forms/node/934)

**PROFESSIONAL QUALIFICATIONS:** An earned Ph.D. or equivalent in Mathematics, Statistics, Computer Science or related field from an accredited college or university is required at the time of appointment.

The successful candidate must demonstrate the following:

- Expertise in Data Science and its applications;
- Record of, or potential for, excellence in teaching at the undergraduate level;
- Proficiency in coding languages;
- Willingness to teach courses using Python and R;
Ability and desire to build out and teach the newly developed Data Science courses (listed under Professional Duties) as well as to teach a broad range of courses (major, general education, etc.);
Interest or experience in cross-disciplinary collaboration to develop curriculum that incorporates data applications into other disciplines;
Interest or experience in preparing students for careers in industry;
Record of, or potential for, involving undergraduate students in research and scholarly activity;
Demonstrated ability or potential to advise and mentor students from minoritized groups in higher education;
Ability to work effectively with diverse populations, including multicultural experience and cross-cultural communication skills; and
Commitment to and/or experience with implementing innovative approaches in lower and upper division courses to increase equity and student success in diverse classrooms.

**Candidates are expected to address all the above required qualifications in their CV or cover letter**

Preferred qualifications for this position include:

- Evidence of successful teaching experience at the undergraduate level;
- Expertise in machine learning algorithms and implementation;
- Experience using the entire data processing pipeline, including data visualization and data storytelling;
- Experience working with big data and cloud computing;
- Proficiency with Jupyter Notebooks (or similar) and their potential implementation in course design;
- Proficiency with one or more industry-standard Data Science tools and platforms (e.g., Tableau, Jupyter, TensorFlow, Hadoop, Github, etc.);
- Experience using data for actionable insights in one or more areas of application (e.g., Fire Science, Climate Change, Ecology, Social Justice, Clean Energy, etc.);
- Ability to develop, implement, and assess programs in ways that advance equitable and inclusive learning communities;
- Commitment to participating in professional development opportunities that build effectiveness in areas of inclusion, intercultural communication, and advancing diversity; and
- Research interest and methodologies that contribute to the understanding of diversity and equal opportunity

**Working in the state of California is a condition of employment for this position. Even if part or all of an employee’s assignment can be performed remotely, the employee must maintain a permanent residence in the state of California. The employee must be able to accept on-campus instruction, as assigned, and come to campus when needed.**
At the time of appointment, the successful candidate, if not a U.S. citizen, must have authorization from the Bureau of Citizenship and Immigration Services to work in the United States. For information on the University policy on support for non-immigrant probationary faculty visa acquisition, please visit the Faculty Immigration Resources page: https://extended.humboldt.edu/international-programs/immigration/faculty.

Evidence of degree(s) is required at time of hire.

**PROFESSIONAL DUTIES:** Candidates should be committed to teaching excellence and to building a strong research record. Instructional assignments may include, but are not limited to, any of our six newly developed Data Science courses:

- Introduction to Programming and Computational Thinking for Data Science
- Data Wrangling and Visualization
- Applied Data Analysis
- Machine Learning for Data Science
- Advanced Data Science Methods and Ethics
- Capstone in Data Science

Instructional assignments will be consistent with the programmatic needs of the Mathematics Department and students, potentially including courses in mathematics, statistics and computer science.

The primary professional responsibilities of instructional faculty members are: teaching, research, scholarship, and creative activity; and service to the University, professional and to the community. These responsibilities include: advising students, participation in campus and system-wide communities, maintaining office hours, working collaboratively and productively with colleagues, and participation in traditional academic functions. Probationary faculty are typically provided ongoing mentorship to be a successful member of the faculty. During the first two years of the probationary period, teaching responsibilities will be reduced by approximately one course each semester. The reduced teaching load supports the establishment of research, scholarship and/or creative activities required for retention, tenure, and promotion.

Cal Poly Humboldt also continues to build unique and innovative learning opportunities for students, bridging the sciences, social sciences, arts and humanities. Humboldt is a leader in “learning communities” that build relationships between students, faculty, staff, administrators, and the community. These communities incorporate environmental and social responsibility.

**GENERAL INFORMATION:** For more information, please visit: https://math.humboldt.edu

Cal Poly Humboldt sits on the traditional homelands of the Wiyot people in what is currently called Arcata, CA. The Wiyot people call the area Goud’i’ni (over in the woods). The Cal Poly Humboldt campus in Northern California is in close proximity to several thriving Native American tribes and communities. Humboldt currently has the largest percentage of Native American students in the CSU system and has over 30 Native American faculty and staff many from local area California Indian
tribes. Humboldt is home to a number of leading Native American programs including the Indian Tribal Education and Personnel Program (ITEPP) and the Indian Natural Resource, Science and Engineering Program (INRSEP). There are also many opportunities at Humboldt to conduct research, teaching and community work on Native American history and cultures in Special Collections at the Cal Poly Humboldt library. The Humboldt Room in the Library has fantastic resources for tribally focused archive materials from the region. Humboldt strives to build a supportive and inclusive Native community and engages with Native communities through various initiatives and opportunities like the annual California Indian Big Time and Indigenous People's Week and a chance to network with other faculty and staff as part of the Cal Poly Humboldt Council of American Indian Faculty and Staff. For more information, please visit: [www.humboldt.edu/nasp](http://www.humboldt.edu/nasp)

**APPLICATION:** Qualified candidates should submit the following materials through PageUp:

- Letter of Application;
- Curriculum Vitae;
- Diversity Statement, include your understanding of the barriers facing Black, Indigenous, and other people of Color (BIPOC) in higher education and your past and/or future contributions to inclusive student success, including equitable access and outcomes through teaching and professional or public service. Applicants are encouraged to highlight any contributions they have made towards the inclusivity of students from the LGBTQ+ community. (2 page limit);
- Statement of Teaching Philosophy, including how it relates to supporting students who have been historically marginalized and/or minoritized;
- Statement of Research Interests, specifically addressing any application to a broad societal challenge if one exists, as well as discussing the potential for incorporating students into this research agenda;
- Teaching Evaluations, if available;
- Graduate Transcripts (unofficial copies are sufficient for initial review); and
- Names and Contact Information for Three (3) Professional References. One of the references should be the candidate's current supervisor. If the candidate is self-employed, the most recent supervisor will suffice.

Additional application materials may be requested at a later time. The Letter of Application and CV should address how the candidate meets the professional qualifications of the position.

Please direct any questions pertaining to this position, the Department of Mathematics, or Cal Poly Humboldt to:

**Dr. Kamila Larripa, Search Committee Chair**  
**Department of Mathematics**  
**Cal Poly Humboldt**  
**1 Harpst Street**  
**Arcata, California 95521-8299**  
**Phone: (707) 826-3143**

Email: kamila.larripa@humboldt.edu
APPLICATION DEADLINE: This position is open until filled. First consideration will be given to completed applications received no later than November 1, 2022. Early response is encouraged.

See more photos at Cal Poly Humboldt's Flickr page (https://www.flickr.com/photos/calpolyhumboldt/).

It is the responsibility of the applicant to provide complete and accurate employment information. Evidence of required degree(s), certification(s), or license(s) will be required prior to the appointment date. A background check (including a criminal records check, employment verification, and education verification) must be completed satisfactorily as a condition of employment with the CSU. Certain positions may also require a credit check, motor vehicle report, and/or fingerprinting through Live Scan service. Adverse findings from a background check may affect the application status of applicants or continued employment of current CSU employees who apply for the position. All CSU employees are obligated to respond to and report incidents of sexual harassment and sexual violence. Compliance with the California Child Abuse and Neglect Reporting Act (CANRA) and CSU Executive Order 1083 Revised July 21, 2017 (EO 1083) is a condition of employment. CSU employees in positions with duties that involve regular contact with children or positions which supervise such employees are designated as Mandated Reporters under CANRA and are required to comply with the requirements set forth in EO 1083. Upon appointment to this position, the successful candidate(s) will be notified of and required to acknowledge their CANRA reporting status. New employees hired by the CSU for the first time who first become CalPERS members on or after July 1, 2017 are subject to a 10 year vesting period for retiree health and dental benefits.

Cal Poly Humboldt is a Title IX/Affirmative Action/Equal Opportunity Employer. We consider qualified applicants for employment without regard to race, religion, color, national origin, ancestry, age, sex, gender, gender identity, gender expression, sexual orientation, genetic information, medical condition, disability, marital status, protected veteran status, or any other legally protected status. If accommodations need to be made during the recruitment and interview process, please contact Human Resources at (707) 826-3626 or hsuhr@humboldt.edu.
Cal Poly Humboldt is part of the 23-campus California State University system. The University has a comprehensive arts and sciences curriculum, which is recognized nationally for its high academic quality. Founded in 1913, Humboldt is one of the premier public institutions in the western United States; it is a residential and rural campus with an enrollment of approximately 5,800 students. The main campus is located in Arcata, California, in the northwestern part of the state along the coast, situated among redwood trees in an area that offers unmatched scenic beauty, moderate climate and opportunities for outdoor activities. The surrounding Humboldt County locale has a population of around 130,000. The community offers an excellent range of businesses, services and cultural activities/performances. The local schools are ranked in the top performance percentiles, both nationally and in the state. Additional information about Humboldt State University can be found at: http://www.humboldt.edu.

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Please note, there are known accessibility barriers in the use of this product. While many issues have been corrected, improvement work continues.
For assistance with faculty positions, please contact the APS team at (707) 826-5086 or email us at aps@humboldt.edu (mailto:aps@humboldt.edu)
For assistance with staff positions, please contact the HR team at (707) 826-3626 or email us at hr@humboldt.edu (mailto:hr@humboldt.edu)
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Arcata, CA, 95521
(707) 826-5177
titleix@humboldt.edu

For more information about Clery Compliance, please visit: https://clery.humboldt.edu.

2021 Annual Fire Safety Report
Pursuant to the Higher Education Opportunity Act, the 2021 Annual Fire Safety Report (AFSR) is now available for viewing at https://housing.humboldt.edu/sites/default/files/annual_fire_safety_report_for_housing_2021.pdf. The purpose of this report is to disclose statistics for fires that occurred within Cal Poly Humboldt's housing facilities for 2018, 2019, and 2020, and to distribute fire safety policies and procedures intended to promote safety on campus. A paper copy of the AFSR is available upon request by contacting the Housing & Residence Life Department located at:

355 Granite Ave  
Arcata, CA 95521  
(707) 826-3451  
housing@humboldt.edu

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Siemens Hall 212, 1 Harpst St.  
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