



ARCS® FOUNDATION, INC.
NORTHERN CALIFORNIA CHAPTER

April 10, 2023

Chris Simpson Brent and Joan Foley, Co-Chairs
University Relations – ARCS National

Dear Chris and Joan,

On behalf of the Northern California Chapter of ARCS, we are proud to present the new department application from the University of California, Santa Cruz's (UCSC) Department of Applied Mathematics. The application was unanimously approved by the Assessment Committee in March and was also unanimously approved by the NCC Board at this month's meeting.

We are enclosing the following documents for your review:

1. The application;
2. The cover letter from the Dean of Baskin School of Engineering in which Applied Mathematics is housed;
3. The executive summary by Charlie Campbell, member of the Assessment Committee; and
4. Slides from the presentation to the Assessment Committee by the new chair of Applied Mathematics, Pascale Garaud.

The Applied Mathematics Department is a relatively young department at UCSC, created in 2018 after the split of the combined Statistics and Applied Mathematics Department. Despite its youth and the pandemic, the department is thriving and growing. It has a dynamic young faculty, most with prestigious editorial and other positions in relevant societies and journals; the department has close to a million dollars per year in grants; its graduates already have gone on to important jobs in industry, academia and government; and the department has added a new master's program with most of its graduates pursuing PhDs. Reflective of the quality of the faculty is the new chair, Pascale Garaud, herself an accomplished scientist and mentor. See <https://users.soe.ucsc.edu/~pgaraud/>

Applied mathematics works across disciplines to solve real world problems from medicine to astrophysics to high performance machine learning to scientific machine learning. The placement of the department in the School of Engineering allows for research synergies that otherwise might be more difficult to achieve. All of this and much more is explained in detail in the attached application and accompanying documents. Our chapter is convinced that this is an exciting opportunity to help support young scientists whose work could have real and meaningful impact on our world.

Thank you for considering this proposal for program approval. We look forward to hearing your decision. Many thanks,

Ellie Bingham

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Co-President

Katy Hope

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Co-President

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