

David Doty has a PhD position available for Fall 2023 at the University of California, Davis in DNA nanotechnology software and research. The project will involve

1. scientific software development, for instance on scadnano (<https://github.com/UC-Davis-molecular-computing/scadnano#readme>) for structural DNA nanotech design, and nuad (<https://github.com/UC-Davis-molecular-computing/nuad#readme>) for DNA sequence design.
2. Algorithmic and modeling research in support of DNA sequence design.
3. Collaborations with partner institutions on wet-lab experiments in nucleic acid strand displacement and self-assembly to tune the modeling and design software.

The ideal candidate has a background in computer science/computer engineering/software engineering (either through a formal degree, or experience with programming) and would join the Computer Science department (<https://cs.ucdavis.edu/>). However, depending on background and career goals, it would also be feasible to apply to the departments of either Applied Mathematics (<http://appliedmath.ucdavis.edu/>) or Biomedical Engineering (<https://bme.ucdavis.edu/>).

Please contact [doty@ucdavis.edu](mailto:doty@ucdavis.edu) if you are interested.

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