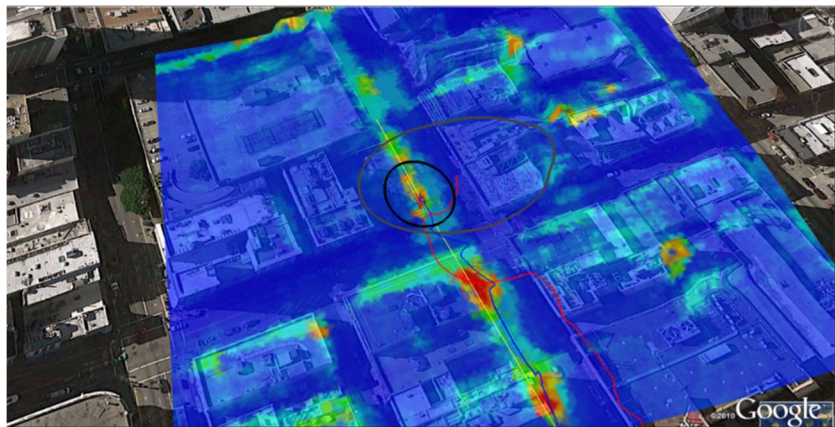# APPLIED MATHEMATICS COLLOQUIUM:
Transitioning from academia to industry: ShadowMaps Case Study

Miles Detrixhe
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About The Speaker:

Miles Detrixhe is Staff Software Engineer / Technical Lead Manager at Uber Technologies, Inc where he works primarily on GPS location improvement technology. Miles is a graduate of the University of Kansas (BS) and University of California Santa Barbara (MS, PhD) Mechanical Engineering departments. At UCSB he worked in the Computational Applied Science Laboratory developing highly parallel algorithms for solving time-independent Hamilton Jacobi equations. His previous work includes a visiting scholar position at Los Alamos National Lab working on numerical methods for interfaces, a postdoctoral position at UCSB developing algorithms for biomolocule electrostatic computations, and as a software engineer at Google Inc.

Date:
12/2/2022

Time:
3:00 PM-5:20 PM

Location:
SSB 170

Abstract:

ShadowMaps is a GPS improvement technology that went from a UC academic research project to startup, to acquisition, to deployment and feature development by a large technology company. Through a ShadowMaps case study, I will discuss the research methods and highlight the challenges faced in an academia vs industry research environment. The rest of the talk will focus more generally on how an applied mathematician might navigate their early career choices and set themselves up for success.

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