Alex Dahl

Department of Computer Science and Electrical Engineering   Phone: (507) 244 1978

University of Maryland Baltimore County   Email: adahl1@umbc.edu

Baltimore, Maryland

Education

[†] *Indicates expected*

2016–2021 [†]	Ph.D., Computer Science, University of Maryland Baltimore County
2012–2016	B.Sc., Computer Science, University of Minnesota

Papers

[1] Alex Dahl and Adam Bargteil. Momentum preservation for corotational finite element methods. *Symposium on Interactive 3D Graphics and Games 2019*, Submitted 2018.

Coursework

Physically-based Animation, Fundamentals of Computer Graphics II, Numerical Analysis, Computer Vision, Program Design and Development, Design and Analysis of Algorithms

Appointments

Teaching Assistant

2016 Fall	CMSC435/634, Computer Graphics	UMBC
2016 Spring	CSCI2033, Linear Algebra	University of Minnesota
2015 Fall	CSCI1913, Intro to Algs. and Program Dev.	University of Minnesota
2015 Spring, Summer	CSCI1113, Intro to C/C++	University of Minnesota

Professional Activities

- Team Member, GOFIRST Student Group IGVC Software Team, 2012–2014

- Team Member, GOFIRST Student Group Autonomous Snowplow Software Team, 2014–2017

- Volunteer, FIRST FRC and FTC Competitions, 2012–2017

2017–2018   Research Assistant, Computer Science, University of Maryland Baltimore County

- Research in physics-based animation under Dr. Adam Bargteil

2016   Teaching Assistant, Computer Science, University of Maryland Baltimore County

- Held office hours and graded assignments for combined grad/undergrad class.
- Taught concurrent lectures when professor was unavailable.

2015–2016   Undergraduate Teaching Assistant, Computer Science, University of Minnesota

- Held office hours and graded assignments.
- Ran programming labs.
- Ran discussion section when instructor unavailable.

2014–2016   Usability Assistant, Office of Information Technology, University of Minnesota

- Assisted in running user experience testing for a variety of types of software
- Ran recording and tracking equipment in lab
- Recruited and scheduled for concurrent projects
- Developed Excel plugins to automate scheduling work