

Athina Panotopoulou

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EDUCATION

PH.D. IN COMPUTER SCIENCE, Dartmouth College, US 2020

Dissertation: "Stylized 2D Fabrication of Non-Photorealistic Images."

Advisor: E. Whiting. Committee: W. Jarosz, X. D. Yang, and S. Paris

Fields: Graphics, Computational Fabrication, Computational Art, and Tactile Perception

B.S. IN INFORMATICS, Athens University of Economics and Business (AUEB), Greece 2011

Fields: Theoretical Computer Science and Databases and Knowledge Management

GPA: 8.81/10 (ranking 2nd out of 203)

RESEARCH POSITIONS

POSTDOC, HCC Section, Host: Daniel Lee Ashbrook, University of Copenhagen 2022 - present

VISITING SCHOLAR, Computer Science Dept., Host: Emily Whiting, Boston University 2017 - 2020

INTERN, Design and Fabrication Group, Host: Nobuyuki Umetani, Autodesk Research Toronto 2015-Fall

PEER-REVIEWED PAPERS [\[SCHOLAR\]](#) [\[ARXIV\]](#) [\[DBLP\]](#)

- [1] **"Fabricating Stiffness Tunable Objects."**
A. Panotopoulou, V. Savage, D. L. Ashbrook
In Preparation, preliminary results, poster/demo (2025). [↗](#)
- [2] **"Tactile Line Drawings for Improved Shape Understanding in Blind and Visually Impaired Users."**
A. Panotopoulou, X. Zhang, T. Qiu, X. D. Yang, E. Whiting
ACM Transactions on Graphics, Proceedings of SIGGRAPH, 39(4), Article 89 (2020). [↗](#)
- [3] **"Watercolor Woodblock Printing with Image analysis."**
A. Panotopoulou, S. Paris, and E. Whiting
Computer Graphics Forum, Proceedings of Eurographics, 37(2), 275-286 (2018). [↗](#)
- [4] **"Scaffolding a Skeleton."**
A. Panotopoulou, E. Ross, K. Welker, E. Hubert, and G. Morin
Springer, Research in Shape Analysis. Association for Women in Mathematics Series, 12, 17-35 (2018). [↗](#)
- [5] **"Printone: Interactive Resonance Simulation for Free-Form Print-Wind Instrument Design."**
N. Umetani, A. Panotopoulou, R. Schmidt, and E. Whiting
ACM Transactions on Graphics, Proceedings of SIGGRAPH Asia, 35(6), Article 184 (2016). [↗](#)
- [6] **"Perceptual Models of Preference in 3D Printing Direction."**
X. Zhang, X. Le, A. Panotopoulou, E. Whiting, and C. Wang
ACM Transactions on Graphics, Proceedings of SIGGRAPH Asia, 34(6), Article 215 (2015). [↗](#)

AWARDS

RISING STARS IN EECS WORKSHOP, UC Berkeley November 2020

PRESIDENTIAL FELLOWSHIP, Dartmouth 2012-2015

NO 1 RANKING, COMPUTABILITY AND LOGIC COURSES, in memory of M. Mytilineos, AUEB award 2008-2009

NO 1 RANKING, FIRST-YEAR MATHEMATICS COURSES, AUEB award 2006-2007

POSTERS & DEMOS

Symposium on Computational Fabrication, Aarhus, Denmark (2024).

"Threa-D Printing Tunable Bistable Mechanisms."

A. Panotopoulou, V. Savage, D. L. Ashbrook. *Presenter*: A. Panotopoulou

Symposium on Computational Fabrication, Boston, USA (2018).

"Watercolor Woodblock Printing with Image Analysis."

A. Panotopoulou, S. Paris, and E. Whiting. *Presenter*: A. Panotopoulou

Symposium on Computational Fabrication, Boston, USA (2016).

"Perceptual Models of Preference in 3D Printing Direction."

X. Zhang, X. Le, A. Panotopoulou, E. Whiting, and C. Wang. *Presenter*: A. Panotopoulou

Computer Science Research Symposium (CSRS), Hanover, USA (2016).

"Perceptual Models of Preference in 3D Printing Direction."

X. Zhang, X. Le, A. Panotopoulou, E. Whiting, and C. Wang. *Presenter*: A. Panotopoulou

Computer Science Research Symposium (CSRS), Hanover, USA (2013).

"Sentiment Analysis of Constitutions."

A. Panotopoulou, N. Foti, and D. Rockmore. *Presenter*: A. Panotopoulou

IEEE Information Theory Workshop, Lausanne, Switzerland (2012).

"Bayesian Inference for Discrete Time Series via Tree Weighting."


I. Kontoyiannis, A. Panotopoulou, and M. Skoularidou. *Presenter*: I. Kontoyiannis

INVITED TALKS

Democratizing Fabrication, Summer HCI, Aarhus University (2023).

"Image Fabrication."

Geometry Colloquium, University of Toronto, online (2021).

"Tactile Images for 3D Shapes." 

AI4ALL Summer Program, Boston University, online (2020).

"Stylized Image Fabrication."

Association for Women in Mathematics Symposium, Women in Shape Modeling, Rice University, Houston, USA (2019).

"Scaffolding a Skeleton."

AI4ALL Summer Program, Boston University, Boston, USA (2019).

"Watercolor Woodblock Printing."

New Balance Innovation Studio, part of a visit with the BU Shape Lab, Lawrence, USA (2019).

"Perceptual Models of Preference in 3D Printing Direction."

Computer Graphics Group, MIT, Boston, USA (2018).

"Watercolor Woodblock Printing with Image Analysis."

TEACHING EXPERIENCE

EMPIRICAL METHODOLOGIES 2, INSTRUCTOR, University of Copenhagen, HKMB00311U 2023-Fall

Taught and prepared lecture material for Introduction to Statistics for four hours every week.

COMPUTATIONAL FABRICATION, TA, Boston University, CS591 2018-Spring

Graded, held office hours, and organized logistics.

COMPUTATIONAL FABRICATION, TA, Dartmouth College, CS89/189 2016-Spring, 2016-Fall

Graded, held office hours, and organized logistics.

UNDERGRADUATE ALGORITHMS, TA, Dartmouth College, CS31 2012-Fall, 2014-Fall

Wrote solutions (Latex), graded, and held office hours.

- GRAPHICS, TA**, Dartmouth College, CS77/177 2014-Spring
Graded and held office hours.
- UNDERGRADUATE DISCRETE MATHEMATICS, TA**, Dartmouth College, CS30 2014-Winter
Graded, held office hours, and helped prepare homework.
- UNDERGRADUATE INTRODUCTION TO PROGRAMMING, TA**, Dartmouth College, CS1 2013-Winter, 2014-Fall
Graded and held office hours.
- UNDERGRADUATE INTRODUCTION TO PROGRAMMING, LEADER**, Dartmouth College, CS1 2013-Winter
Taught and prepared material for one hour recitation section every week, graded, and held office hours.

RESEARCH SUPERVISION

- Mentor**, Tammy Qiu (undergraduate), Boston University 2019
Advised participation on weekly basis along with Emily Whiting in tactile research project, appears as coauthor[1].
- Mentor**, Joy Ding (high school) Greater Boston Research Opportunities for Young Women 2018
Advised on daily basis for research internship on geometry analysis. Report to Emily Whiting.

SERVICE & LEADERSHIP

- Organizer**, Field trips for students 2024
visits to Fablab Roskilde and Royal Danish Academy
- Co-Chair Poster & Demo**, Symposium on Computational Fabrication [🔗](#) 2024
- Assistant**, Symposium on Computational Fabrication, Summer School [🔗](#) 2024
- Technical/Program Committee & Judge**, CVPR Challenge 2019
"Deep Learning for Geometric Shape Understanding" [🔗](#),
"SkelNetOn: Dataset and Challenge on Deep Learning for Geometric Shape Understanding." [🔗](#)
- Student Committee Member**, Computer Science PhD Admissions 2014
Scored student applications.
- Graduate Student Leader**, Dartmouth Argentine Tango Society (DATS) 2014-2017
Applied for University funding, organized class accommodation, kept up-to-date the website, and advertised on-line.
- Technical Paper Reviewer**, ACM CHI 2024, 2025
- Poster Reviewer**, ACM SIGGRAPH 2021, 2023, 2024
- Technical Paper Reviewer**, Eurographics 2019, 2020

OUTREACH

- Demonstrator**, HCC, Open House 2023,2024
Demoed 3D-printed mechanisms and their applications to the public.
- Demonstrator**, DIKU 2024
Demoed artifacts from our lab to incoming university students.
- Co-organizer**, Computer Science Research Symposium, Dartmouth College 2016
Organized logistics including venues and catering.
- Demonstrator**, Dartmouth Science Day 2016
Led hands-on activity with primary school students on digital fabrication.

SKILLS

LANGUAGES Greek (Native) | English (Fluent) | French (Beginner)