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

Visiting Scholar, Computer Science Dept., Host: Emily Whiting, Boston University, Boston *2017 - 2020*

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

Peer-Reviewed Papers [Scholar] [arXiv] [dblp]

[1] "**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).

[2] "**Watercolor Woodblock Printing with Image analysis**."
A. Panotopoulou, S. Paris, and E. Whiting
Computer Graphics Forum, Proceedings of Eurographics, 37(2), 275-286 (2018).

[3] "**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).

[4] "**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).

[5] "**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

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

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

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, 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*
Prepared material to teach one hour recitation section every week, graded, and held office hours.

Service & Leadership

Poster Reviewer, ACM SIGGRAPH *2021*

Technical Paper Reviewer, Eurographics *2019, 2020*

Research Mentor, Tammy Qiu (undergraduate), Boston University *2019*
Advised participation on weekly basis along with Emily Whiting in tactile research project, appears as coauthor[1].

Technical/Program Committee & Judge, CVPR Challenge *2019*
"Deep Learning for Geometric Shape Understanding",
"SkelNetOn: Dataset and Challenge on Deep Learning for Geometric Shape Understanding."

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.

Demonstrator, Dartmouth Science Day *2016*
Led hands-on activity with primary school students on digital fabrication.

Co-organizer, Computer Science Research Symposium, Dartmouth College *2016*
Organized logistics including venues and catering.

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 online.

Skills

Programming Languages	C++ | Python | Matlab | Java
Tools & Libraries	OpenCV | OpenGL | Blender | Adobe Premiere | Adobe Illustrator | Audacity
Hardware	3D Printing | Laser Cutting | Printing Press | Woodblock Printing | Study Monitoring
Languages	Greek (Native) | English (Fluent) | French (Beginner)