

# Anastasios Stefanou

*Post-Doc Fellow, Ohio State University*

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## Education

- 2013–2018 **Ph.D**, *University at Albany, SUNY*.  
Advisors: Elizabeth Munch, Justin Curry
- 2011–2013 **M.Sc**, *Aristotle University of Thessaloniki, Greece*.
- 2005–2010 **B.Sc**, *Aristotle University of Thessaloniki, Greece*.

## Research Interests

Category theory, Applied and Computational Topology, Topological Data Analysis.

## Academic Appointments

- Fall 2018–2016–2018 **Post-Doctoral Fellow**, *Ohio State University*.
- 2016–2018 **Lecturer**, *University at Albany*.
- Summer 2015 **Research Assistant**, *University at Albany*.  
2016 & 2017
- 2013–2015 **Teaching assistant**, *University at Albany*.

## Publications and Preprints

- 2018 E. Munch, A. Stefanou, *The  $\ell^\infty$ -cophenetic metric for Phylogenetic Trees as an interleaving metric* (submitted). arXiv preprint: <https://arxiv.org/abs/1803.07609>
- 2017 V. de Silva, E. Munch, A. Stefanou, *Theory of interleavings on categories with a flow* arXiv preprint: <https://arxiv.org/abs/1706.04095>
- 2015 V. de Silva, E. Munch, A. Stefanou, *A hom-tree lower bound for the Reeb graph interleaving distance*. Published in: *Extended Abstract, Fall Workshop on Computational Geometry (2015)*

## In preparation

- 2018 A. Stefanou, *Classification of phylogenetic networks*
- 2018 V. de Silva, E. Munch, A. Stefanou, *A hom-tree lower bound for the Reeb graph interleaving distance*.
- 2018 N. Scoville, A. Stefanou, *Strong homotopy interleaving distance*.

2018 F. Belchi-Guillamon, A. Stefanou, *A-infinity persistence estimates topology from pointclouds.*

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## Awards and Research Support

Spring 2018 **Travel award.**

The award was used to attend the GSIMS seminar at Lehigh University.

Spring 2018 **AMS travel award.**

The award was used to attend the Joint Math Meetings in San Diego, California.

Summer 2017 **SIAM travel award.**

The award was used to attend the SIAM-AG17 conference in Atlanta, Georgia.

Fall 2016 **Discretionary Salary Award, December 2016.**

Mathematics Department, SUNY at Albany.

Summer 2016 **Travel award, July 2016.**

The award was used to attend the ATMCS7 conference in Torino, Italy.

Spring 2016 **NSF travel award, May 2016.**

The award was used to attend the TGDA conference in Columbus, Ohio.

Fall 2015 **NSF travel award, October 2015.**

The award was used to attend the FWCG workshop in Buffalo, NY.

Summer 2015 **NSF travel award, June 2015.**

The award was used to attend the YRF and SoCG conference in Eindhoven, Netherlands.

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## Computer Skills

A.I. skills **Deep Learning, Course Certificate.**

A.I. skills **Machine Learning Sequence, Passed two graduate courses, Mathematics Department of University at Albany, SUNY.**

Coding **Python, MATLAB, Mathematica, C++, LaTeX, HTML.**

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## Talks and Presented Work

Fall 2018 "Interleavings on Phylogenetics Trees", TGDA seminar, Ohio State University, Columbus, OH, September 18 2018

Spring 2018 "Interleavings on categories with a flow", GSIMS, Lehigh University, Bethlehem, PA, March 8 2018

Spring 2018 "Interleavings on categories with a flow", AMS Special Session in Topological Data Analysis, Joint Math Meetings, San Diego, CA, January 13 2018

Summer 2017 "Interleavings on categories with lax  $[0, \infty)$ -action", Applied Algebraic Geometry-SIAM conference, Atlanta GA, August 3 2017

Summer 2017 "Theory of interleavings on  $[0, \infty)$ -actegories", Applied Topology Conference, Bedlewo, Poland, poster presentation, June 2017

Spring 2017 "Introduction to persistent homology", Math Theory Seminar, US Military Academy, West Point, NY, May 3, 2017

- Spring 2017 "Interleavings on categories with lax  $[0, \infty)$ -action", Algebra/Topology Seminar, University at Albany, SUNY, March 23, 2017
- Spring 2017 "Interleavings on categories with lax  $[0, \infty)$ -action and the hom-tree functor", Joint Math Meetings, Atlanta, Georgia, January 4, 2017
- Fall 2016 "Interleavings on categories with lax  $[0, \infty)$ -action and the hom-tree functor", Union College Mathematics Conference, Union College, December 4, 2016
- Fall 2016 "Higher functoriality of the interleaving distance", Graduate seminar, University at Albany, SUNY, November 18, 2016
- Summer 2016 "The abstract interleaving distance and a stability criterion", poster presentation, Applied topology: Methods, Computation, and Science Conference, Torino, Italy, July 25, 2016
- Spring 2016 "The abstract interleaving distance and a stability criterion", poster presentation, Topology, Geometry and Data Analysis Conference, Columbus, OH, May 16, 2016
- Fall 2015 "A hom-tree lower bound for the Reeb graph interleaving distance", Graduate conference in Algebra and Topology, Binghamton, NY, November 14, 2015
- Fall 2015 "A hom-tree lower bound for the Reeb graph interleaving distance", Fall Workshop on Computational Geometry (FWCG), Buffalo, NY October 23, 2015
- Summer 2015 "A hom-tree lower bound for the Reeb graph interleaving distance", Young Researchers Forum, Symposium on Computational Geometry (SoCG), Eindhoven, Netherlands June 23, 2015

## ■ Courses Taught

- Fall 2017 Algebra and Calculus I (two sections)
- Spring 2017 Algebra and Calculus II (two sections)
- Fall 2016 Calculus I (two sections)
- Fall 2015 Algebra and Calculus I
- Spring 2015 Algebra and Calculus II
- Fall 2014 Algebra and Calculus I

## ■ Additional Service

Sub-reviewer at 34th Symposium on Computational Geometry

## ■ Professional Affiliations

American Mathematical Society (AMS)  
 Society for Industrial and Applied Mathematics (SIAM)