

Nicholas Heller

Curriculum Vitae

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Research Interests

Active learning, semi-supervised learning, computer vision, medical image processing.

Education

- 2013–2017 **B.S. Computer Science**, *University of Minnesota – Twin Cities*.
2017–Present **Ph.D. Computer Science & Engineering**, *University of Minnesota – Twin Cities*.
Advisor: Nikolaos Papanikolopoulos

Publications

- 2018 *Imperfect Segmentation Labels: How Much Do They Matter?*.
Nicholas Heller, Joshua Dean, and Nikolaos Papanikolopoulos
In Submission, MICCAI LABELS Workshop, 2018
- 2018 *A Balance Cascade of Deep Neural Networks for CT Renal Segmentation*.
Nicholas Heller, Michael Tradewell, Joshua Dean, Vassilios Morellas, Nikolaos Papanikolopoulos, Niranjana Sathianathan, and Christopher Weight
Annual Meeting of the Engineering & Urology Society
- 2018 *Convolutional Neural Networks for Aircraft Noise Monitoring*.
Nicholas Heller, Derek Anderson, Matt Baker, Brad Juffer, Nikolaos Papanikolopoulos
Technical Report
- 2017 *A Web-Based Platform for Distributed Annotation of Computerized Tomography Scans*.
Nicholas Heller, Panagiotis Stanitsas, Vassilios Morellas, Nikolaos Papanikolopoulos
MICCAI LABELS Workshop, 2017

Service

- Reviewer MICCAI LABELS Workshop 2018, Annual Meeting of the Engineering and Urology Society 2018.

Teaching

- Spring 2018 CSCI 2033, Elementary Computational Linear Algebra, *Head TA, Guest Lecturer*.
Fall 2017 CSCI 5511, Artificial Intelligence 1, *Head TA, Guest Lecturer*.

Graduate Coursework

- In Progress Error-correcting Codes Finite Fields and Algebraic Curves, Introduction to Data Mining, Programming Languages.
- Completed Computational Aspects of Matrix Theory, Theory of Probability and Statistics, Introduction to Machine Learning, Analysis of Numerical Algorithms, Introduction to Research in Computer Science, Colloquium.

References

Nikolaos Papanikolopoulos

Distinguished McKnight Presidential
Endowed Professor
Computer Science and Engineering
University of Minnesota – Twin Cities

Christopher Weight

Assistant Professor
Urologic Surgery
University of Minnesota – Twin Cities

Marvin Marshak

Distinguished Professor
Physics
University of Minnesota – Twin Cities