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
Oral Presentation, 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, Niranjan Sathianathen, and Christopher Weight
Poster, 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
Poster, 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

Victoria Interrante
Professor
Computer Science and Engineering
University of Minnesota – Twin Cities

Marvin Marshak
Distinguished Professor
Physics
University of Minnesota – Twin Cities

Christopher Weight
Assistant Professor
Urologic Surgery
University of Minnesota – Twin Cities