

Tomasz Malisiewicz

CSAIL

Massachusetts Institute of Technology
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EDUCATION

Carnegie Mellon University, Pittsburgh PA 08/2005-08/2011

Ph.D in Robotics

Advisor: [Alexei A. Efros](#)

Thesis: Exemplar-based Representations for Object Detection, Association and Beyond

Carnegie Mellon University, Pittsburgh PA 08/2005-12/2008

MS in Robotics (GPA 4.00)

Rensselaer Polytechnic Institute, Troy NY 08/2001-05/2005

B.S. Computer Science/Physics & Math Minor (GPA 4.00)

EXPERIENCE

CSAIL, Massachusetts Institute of Technology 09/2011 - current

Postdoctoral Research Associate

- Large-scale recognition and learning using videos
- Working under the supervision of [Antonio Torralba](#)

Robotics Institute, Carnegie Mellon University 08/2005 - 08/2011

Graduate Research Assistant

- Development of object recognition and segmentation algorithms
- Large-Scale Object Recognition and Scene Understanding

Google, Mountain View, CA 06/2009 - 09/2009

Software Engineering Intern in Computer Vision Research Group

- Discriminative Group Sparse Coding for Image Classification

Google, Mountain View, CA 06/2008 - 09/2008

Software Engineering Intern in Computer Vision Research Group

- Large Scale Segmentation and Recognition via MapReduce

École Normale Supérieure, Paris, France 03/2008 - 05/2008

Visiting Student Researcher in Willow Research Group

- Hosted by [Jean Ponce](#) and [Andrew Zisserman](#)

Rensselaer Polytechnic Institute Computer Science Department 05/2004 - 05/2005

Undergraduate Research Assistant - Range Data Registration

- Development of range data registration algorithms in C++
- Work under supervision of [Charles Stewart](#)

Rensselaer Polytechnic Institute Computer Science Department 05/2003 - 09/2003

Undergraduate Research Project - Retinal Image Segmentation

- Cross-Platform Software Engineering
- Medical Imaging/Image Processing using VXL/ITK C++ Libraries/Toolkits

Brookhaven National Laboratory, Upton NY 06/2002 - 09/2002

Energy Research Undergraduate Laboratory Fellowship

- Abstract: Modeling Relativistic Muons in Electromagnetic Rings via Object Oriented Techniques
- Studied Numerical Solutions to Partial Differential Equations

TEACHING EXPERIENCE

Robotics Institute, Carnegie Mellon University 01/2009 - 05/2009
Graduate Teaching Assistant - Learning Based Methods in Vision (Taught by Alexei Efros)

Robotics Institute, Carnegie Mellon University 08/2006 - 12/2006
Graduate Teaching Assistant - Graduate Computer Vision (Taught by Martial Hebert)

Rensselaer Polytechnic Institute CS Dept 01/2004 - 05/2004, 01/2003-05/2003
Undergrad Teaching Assistant - Computer Science II

Rensselaer Polytechnic Institute CS Dept 09/2003 - 12/2003
Undergrad Teaching Assistant - Data Structures and Algorithms

Rensselaer Polytechnic Institute, Advising and Learning Center 09/2001 - 05/2002
Tutor - Computer Science, Physics, Calculus

PUBLICATIONS

A. Shrivastava, T. Malisiewicz, A. Gupta, A. A. Efros. [“Data-driven Visual Similarity for Cross-domain Image Matching.”](#) In SIGGRAPH ASIA, December 2011.

T. Malisiewicz, A. Gupta, A. A. Efros. [“Ensemble of Exemplar-SVMs for Object Detection and Beyond.”](#) In ICCV, November 2011.

T. Malisiewicz, A. A. Efros. [“Beyond Categories: The Visual Memex Model for Reasoning About Object Relationships.”](#) In NIPS, December 2009.

T. Malisiewicz, A. A. Efros. [“Recognition by Association via Learning Per-exemplar Distances.”](#) In CVPR, June 2008.

T. Malisiewicz, A. A. Efros. [“Improving Spatial Support for Objects via Multiple Segmentations.”](#) In BMVC, September 2007.

B. King, T. Malisiewicz, C. Stewart, R. Radke. [“Registration of Multiple Range Scans as a Location Recognition Problem: Hypothesis Generation, Refinement and Verification.”](#) In 3DIM, June 2005.

COMPUTING SKILLS

Languages: C/C++, Matlab, Java

Systems: Strong Linux/Unix Skills, Mac OS X, MapReduce

HONORS and AWARDS

National Science Foundation Graduate Research Fellowship 2006-2009

Rensselaer Polytechnic Institute Mathematics/Science Medal Scholarship 05/2000

National Physics Team Semifinalist (approx 180 students in USA) 05/2001