Curriculum Vitae

Andy Chow

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Research Interests

Realistic image synthesis, computational photography, medical imaging, character animation, human-computer interaction (HCI), non-photorealistic rendering (NPR), computer vision, and machine learning.

Education

Ph.D. ABD, Computer Science

2016

University of Toronto Supervisor: Eugene Fiume

M.Sc., Computer Science

2010

University of Toronto

Thesis: Orthogonal and Symmetric Haar Wavelets on the

Three-Dimensional Ball.

Supervisor: Eugene Fiume

H.B.Sc., Computer Science

2007

University of Toronto Graduated with distinction.

Experience

Research Software Developer

2017 - 2021

Simon Fraser University / University of Toronto.

- Developed a ceramic database search engine using machine learning.
- Collaborated with archaeologists and other non-technical stakeholders.

Course Instructor

2013 - 2015

University of Toronto.

- Head instructor for Introduction to Databases.
- Taught SQL and relational schema design to third-year students.

Teaching Assistant

2009 - 2017

University of Toronto.

• Taught courses listed in the Teaching Assistantships section.

Student Researcher

2004 - 2006

University of Toronto.

• Developed a real-time 3D volume renderer for biophysicists.

Software Developer

2000 - 2009

Freelancer and independent contractor.

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Introduction to Databases 2013 - 2015Course Instructorships **Teaching** Introduction to Databases 2010 - 2013, 2015 - 2017 Software Tools and Systems Programming 2011 - 2017**Assistantships** • Introduction to Artificial Intelligence 2015 2013 - 2014• Computer Forensics 2009 - 2010, 2013 - 2014 • Introduction to Information Security Designing a Website for Historical Studies 2011 - 2013• The Why and How of Computing 2009 - 2013• Computer Science for High School 2012 • Programming on the Web 2010 • Introduction to the Theory of Computation 2009 - 2010• Introduction to Computer Programming 2009 - 20102009 - 2010• Capstone Design Course Awards and Ontario Graduate Scholarship (OGS) 2007 - 2009• Mary H. Beatty Fellowship 2007 Honors Helen Sawyer Hogg Graduate Admission Award 2007 Ontario Scholar Award 1999 Graduate Computer Graphics (CSC2504) • Introduction to Machine Learning (CSC2515) Courses Computer Vision for Advanced Digital Photography (CSC2530) Advanced Image Synthesis (CSC2522) • Non-Photorealistic Rendering (CSC2521) Physics-Based Character Animation (CSC2521) Character Animation (CSC2529) • Sketching: Interaction, Modeling and Perception (CSC2521) Computational Structural Biology (CSC2418) Programming: C, C++, Java, JavaScript, Python, SQL **Technical** JDBC, MongoDB, MySQL, PostgreSQL Database: Skills Web: CSS, HTML, JavaScript, Perl, PHP Graphics: Adobe Photoshop, Autodesk Maya, OpenGL, PBRT, POV-Ray Academic: Maple, Mathematica, MATLAB, ML, Octave, Prolog, Scheme "The CRANE Ceramics Project: The Challenges of Automated Sherd Conference Matching", ASOR Annual Meeting, Boston MA, Nov 2017. **Presentations**