

# Sean Ho

Updated: Feb2008  
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<http://seanho.com/cv/> (pdf)

## Education

Dec 2004	Ph.D. Computer Science	University of North Carolina	Chapel Hill, NC, USA
Jun 1998	M.S. Mathematics	University of Washington	Seattle, WA, USA
Jun 1996	B.S. Mathematics and Computer Science, <i>magna cum laude</i>	University of Washington	Seattle, WA, USA
Sep 1991	Entered university at age 13, Early Entrance Program	University of Washington	Seattle, WA, USA

## Employment

Aug 2005 - present	Assistant Professor, Math / Computing Science	Trinity Western University	Langley, BC, Canada
Jul 1998 - Aug 2004	Graduate Research Assistant	University of North Carolina	Chapel Hill, NC, USA
Sep 1996 - Jun 1998	Teaching Assistant	University of Washington	Seattle, WA, USA

## Teaching Experience

Aug 2005 - present	Computing science: Introductory Programming, Object-oriented, Graphics, GUIs, Parallel	Trinity Western University	Langley, BC, Canada
Aug 2005 - present	Mathematics: Precalculus, Business Calculus, Introductory Statistics, Statistics for Health Sciences	Trinity Western University	Langley, BC, Canada
Feb 2002	Guest Lecturer, COMP254 graduate-level image analysis	University of North Carolina	Chapel Hill, NC, USA
Oct 1998 - July 2005	Volunteer youth worker and teacher for grades 6-12	Chinese Bible Church of North Carolina	Cary, NC, USA

## First-Author Publications

Sean Ho and Guido Gerig, "Profile Scale-Spaces for Multiscale Image Match," *Medical Image Computing and Computer-Assisted Intervention (MICCAI)*, part 1, Lecture Notes in Computer Science, vol. 3216, pp. 176-183, Springer 2004.

Sean Ho, Elizabeth Bullitt, and Guido Gerig, "Level-Set Evolution with Region Competition: Automatic 3-D Segmentation of Brain Tumors," *International Conference on Pattern Recognition (ICPR)*, vol. 1, pp. 532-539, 2002.

## Profile

Research interests: medical image analysis, Bayesian image segmentation, texture analysis, computer vision, statistical pattern recognition, expert systems, artificial intelligence, optimization, Markov Random Fields.

Expertise with *Mathematica*<sup>™</sup>; proficiency with [AVS](#), FLTK, C++, Java, Perl, PHP, JavaScript; familiarity with [ITK](#), Matlab, OpenGL.

University of Washington Dean's List; Phi Beta Kappa.

Invited conference speaker at over 200 schools, churches, and youth groups in 14 countries worldwide.

Volunteer worship leader at Chinese Bible Church of NC for over six years.

Hobbies include digital photography ([photo.seanho.com](http://photo.seanho.com)) and acoustic guitar.

Citizenship: USA. Permanent residence status in Canada.