

NANCY YEN-WEN CHENG, AIA

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EDUCATION

1983 *Bachelor of Arts cum laude, Yale University*

— Architecture & Mechanical Engineering double major

1990 *Master of Architecture, Harvard Graduate School of Design*

— Concentration in computer-aided architectural design

— Thesis: Tradition and Innovation: Mixing Manual and Digital Design Methods

ACADEMIC EXPERIENCE

1996-present *University of Oregon Department of Architecture*

Associate Professor 2002-present, Assistant Professor 1996-2002

— Teaching Architectural Design & Design Media

— Research on Digital Design Media & Teaching Methods

1993-1996 *Lecturer, Dept. of Architecture, Univ. of Hong Kong (HKU)*

— Teaching Architectural Design, Theory of Representation & Computer Methods, Thesis

— Research on Computer-Aided Design Visualization, Collaboration & Communication:

— Administration of Computer resources, Design studio & Adult Education

Summer 1995 *Visiting Scholar, Massachusetts Institute of Technology*

1987-1989 *Teaching Assistant, Harvard Graduate School of Design*

PROFESSIONAL EXPERIENCE

1990-1993 *Kallmann McKinnell & Wood Architects, Boston* Architect, CAD manager

Spring 1990 *Raphael Moneo & Associates, Cambridge* Computer renderer

Summer 88, 89 *Tams Consultants Inc., Boston* Designer

Summer 86 *CBT Inc., Boston* Designer/draftsman

1984-1986 *Graham/Meus Inc., Boston* Project manager

1983-1984 *Mark Mitchell & Assoc., Cambridge* Design team

1979-1980 *Northeast Solar Energy Association, Boston* Intern

RECENT PUBLICATIONS

— “Mining a collection of animated sketches” in *ECAADE’07 (Education and Research in Computer Aided Architectural Design in Europe)*, University of Frankfurt, Sept 26-28, 2007.

— “Thresholds between Analog and Digital Representations”, co-authored with Bob Martens and Earl Mark. *ECAADE’06*, University of Thessaly, Volos, Greece, Sept 6-9, 2006.

— “Learning Design Sketching from Animations and Storyboards”, *International Journal of Architectural Computing*, Volume 4, Number 1, January 2006, pp. 1-17.

— *Fabrication: Examining the Digital Practice of Architecture, ACADIA + AIA-TAP*, co-edited with Philip Beesley and Shane Williamson, R.S. / ISBN 09696665-2-7 Cambridge (Ontario) 2004.

— “Animating Design Process with a Digital Pen” co-authored with Andrew McKelvey, in *CAAD Futures*, Vienna, June 2005.

— “Unveiling Design and Cognition Process Through Digital Sketching: Methods and Tools for Environmental Design Research” co-authored with Ihab Elziadi and Andrew McKelvey, Environmental Design Research Association, Vancouver, April 2005.

— “Stroke Sequence in Digital Sketching” in the *22nd Education and Research in Computer-Aided Design in Europe (eCAADe) Conference Proceedings* / ISBN 0-9541183-2-4, Copenhagen (Denmark) 15-18 September 2004, pp. 387-393.

— “Teaching with Digital Sketching” co-authored with Stina Lane-Cummings, Design Communication Association, Jan 9-11, 2004, San Luis Obispo.

— “Mobile Tools for Learning About Places” co-authored with Stina Lane-Cummings, *CAADRIA’03*, Thailand.

RESEARCH & EQUIPMENT FUNDING

- UO Educ'l Technology Funding, \$23,600 for digital sketching collaborations, 2006-2007
- UO Information Technology Resident Fellowship, \$8000 for developing Digital Sketching website & lessons, with Wired Humanities Project, 2005-2006
- Northwest Academic Computing Consortium, "Tracing Ideas Through Digital Sketching", \$10,000, April 2003
- Logitech Corporation equipment grant, \$4500 in 2004, \$4000 in 2005
- UO Ed Technology Curriculum Develop't Grant "Communicating Place" \$15,500 Mar 2002
- John Yeon course release research grant, \$8,000 Winter 2002
- Intel's Research and Development Arts and Entertainment division equipment grant (with Department of Art faculty) ~\$200,000, 1998-1999
- Autodesk donation: group proposal yielded 25 copies of AutoCad ~\$75,000, summer 1997
- University of Oregon Foundation, Research start-up funding, \$25,000, 1996-1999
- Leung Kau Kui Research & Teaching Endowment Fund, University of Hong Kong for Spatial Visualization and Design Representation, \$19,430, awarded Jan 1994.
- Committee on Research and Conference Grants, Univ. of Hong Kong, Research Grant for "Developing Spatial Representations Through New Media", \$19,490 plus five grants for travel to international conferences

LECTURES & WORKSHOPS, HONORS

- "Digital Sketching" Workshops: NCKU Taiwan, June 2007, HKPU, Hong Kong July 2007, Ball State University, Mar. 2005; Design Communication Assoc. in Montana, Aug. 2005; ACADIA in Savannah, Oct. 2005
- Invited lecture & workshop "Place Tools & Digital Sketching", Univ. of Hong Kong, May 4, 2004, Florida Atlantic Univ., March 17-18, 2005
- Invited seminar "Place Tools and Digital Sketching", Univ. of Singapore, May 17, 2004
- ACADIA Digital Pedagogy Topic Chair, panel moderator, Oct. 2003
- ACADIA Architectural Education panelist, Nov. 2002
- Organizer, "Electronic Media in Education" panel, ACSA National Meeting, March 2002
- Invited lecture, "Communicating Place", Univ. of Washington, Nov. 2001
- Invited lecture, "Communicating Place", Ball State University, Oct. 2001
- "Distance Education Roundtable", ACSA Nat'l Mtg invited panelist, Baltimore, March 2001
- Gold medal for Environmental Sensitivity with Scott Howe, ShelterResorts Design Competition 2000
- Consultant, Design in the Digital Age course, University of Minnesota, Aug 1999.
- Invited lecture & workshop "Architects & the Web", Southern Univ. Baton Rouge, Aug 1998
- Invited lecture & workshop "Digital Design in the Virtual Studio", Univ of Utah, Jan 1998
- Profiled on Oregon Multimedia Association's Women in Multimedia Webpage, 1998
- Work featured: Intel Corp's Showcase of Creative Applications, Hillsboro, OR, Nov. 19, 1998

PROFESSIONAL AFFILIATIONS & SERVICE

- International Journal of Architectural Computing, Editorial Board, 2003-present
- AIA national advisory group for Technology In Architectural Practice, 2001-2005, 2003 Vice-Chair, 2004 Chair
- Co-Chair AIA-TAP/ACADIA 2004 Conference on Fabrication, Nov. 2004, Ontario
- ACADIA Steering Committee (1995-2002), Outreach Officer (1995-1999)
- Research Review Committees: ACADIA (North American) 1996-2003, CAADRIA (Asian), 1997-2000, 2002-2003, ECAADE (European) 2001-2005, SiGRADi (Latin American) 2001, ASCAAD (Arab) 2005, Association of Collegiate Schools of Architecture 1997-98, 2000, 2002
- Grant reviewer, Hong Kong Research Grants Council, 2005, 2006
- Jury, Far Eastern International Digital Architectural Design award, 2001, 2002, 2004, 2006
- American Institute of Architecture member & NAAB certified (since 1994)