

Oberste Mühle 5
34376 Immenhausen
Germany
cmherr@mail.ncku.edu.tw

12F, 25 Dongning Rd West
East District, Tainan 701
Taiwan, R.O.C
Tel. +886 2757575#54122
Mobile: +886 0983928046

Christiane M. Herr 何淨植

Born 18th July 1976 in Hannover, Germany
German Citizen, Hong Kong permanent resident, Taiwan resident.
Married, one child.

EDUCATION

- 2004 - 2008 University of Hong Kong, Department of Architecture
Degree: Doctor of Philosophy (May 2008)
Thesis: From Form Generators to Automated Diagrams:
Using Cellular Automata to Support Architectural Design
- 2001-2003 University of Hong Kong, Department of Architecture
Degree: Master of Architecture (June 2003)
Thesis: The Vertical Village – alternative residential building in Hong Kong
- 1996-2001 University of Kassel (Germany), School of Architecture
Degree: Diplom-Ingenieur in Architecture (March 2001)
Thesis: The Third Skin - residential building in Hong Kong. Final grade: 1.3 – excellent
- 1995-1996 University of Kassel (Germany) Art History, English and Psychology
- 1992-1995 Engelsburg Gymnasium Kassel (Germany) (high school), majors: English and Fine Art
(**German Abitur**, grade 1.5 - very good)

WORK EXPERIENCE

- 02/2010 – ongoing National Cheng Kung University, Department of Architecture. Visiting Assistant Professor
- 02/2009 – 01/2010 Shenzhen University, School of Architecture and Urban Planning. Associate Professor
- 05/2009 – 07/2009 The Hong Kong Polytechnic University, School of Design. Part-time Assistant Lecturer: Strategic Tools for Innovation lecture series in MDes and MBA programmes
- 09/2008 – 10/2008 Shenzhen University, School of Architecture and Urban Planning. Visiting Professor: Strategic Tools for Innovation lectures and workshops
- 05/2008 – 07/2008 The Hong Kong Polytechnic University, School of Design. Part-time Assistant Lecturer: Strategic Tools for Innovation lecture series in MDes and MBA programmes
- 08/2003 – 08/2004 The University of Hong Kong, Department of Architecture. Research Assistant: Courseware development for Integrated Teaching in Construction Technology project
- 02-04/2002 The Hong Kong Polytechnic University, School of Design. Research Assistant: Interactive systems design for haptic learning describing Gaudi's use of ruled surface geometry
- 04-09/1999 Deakin University, School of Architecture and Building. Research scholar.
- 1998 Bollinger & Grohmann, Engineers, Frankfurt, Germany. Competitions together with Schneider & Schuhmacher Architects, Frankfurt
- 1997-1998 Kessler Co., Kassel, Germany. Restoration / conservation of renaissance murals in the castle at Eschwege, Germany
- 1995-1998 ZENTRUM, Kassel, Germany. Environmental resource planning and consulting

ACADEMIC EXPERIENCE

09/2010	Deakin University: Architectural design studio guest critic and advisor
07/2010	C:ADM2010 Conference in Troy/USA: Conference co-organizer, participant
06/2010	2010 Culture and Creativity Conference, NCKU: Discussion panelist
05/2010	Invited lecture on analogue and digital diagrams, National Yunlin University of Technology, Douliu, Taiwan
04/2010	Invited lecture on digitally supported design, Tunghai University, Taichung, Taiwan
04/2010	Paper Presentation at CAADRIA conference in Hong Kong
10/2009	Invited lectures on parametric design at the Harbin Institute of Technology Graduate School, Shenzhen, China
04/2009	Paper Presentation at CAADRIA conference in Douliu/Taiwan
03/2009	Paper Presentation at the 2009 ASC conference in Olympia/USA
10/2008	Invited lecture on architectural research methods for the CIB student chapter, University of Hong Kong
04/2008 - ongoing	CAADRIA Postgraduate Consortium Chair
04/2008	Paper Presentation at CAADRIA conference in Chiang Mai/Thailand
12/2007	Guest critic, The Chinese University of Hong Kong, Department of Architecture
07/2007	Paper Presentation at the CAADfutures 2007 conference in Sydney/Australia
04/2007	Paper Presentation at CAADRIA conference in Nanjing/China
11/2005	Paper Presentation at the 5 th China Urban Housing Conference in Hong Kong
06/2005	Paper Presentation at the CAADfutures 2005 conference in Vienna/Austria
10/2004	Invited lecture together with T. Fischer on Explorations in Generative Design, Tongji University/China, School of Architecture
2004	Paper/Participation in workshop 'De Identitate' in Rome
2004	Paper Presentation at CAADRIA Conference in Seoul/Korea
12/2003	Invited lecture and guest critic, University of Kassel/Germany, School of Architecture
2003	Paper Presentation at the 6 th Conference and Exhibition on Generative Art in Milan/Italy
2002	Paper Presentation at the 5 th Conference and Exhibition on Generative Art in Milan/Italy
2002	Paper Presentation at CAADRIA Conference in Cyberjaya/Malaysia
05/2001	Guest critic, The Hong Kong Polytechnic University, School of Design
2000	Participation in eCAADe Conference in Weimar/Germany
1999-2000	Student member of the School of Architecture's appointment committee for the chair of CAAD, University of Kassel School of Architecture.
1999	Student participant and Technical Assistant, Allomorphe Conference (Architecture), Deakin University

TEACHING EXPERIENCE

02/2010 – ongoing	<u>National Cheng Kung University, Department of Architecture.</u> Taught first year and third year design studio, postgraduate seminars on conceptual design and diagramming, structural design, design research methods and generative design on the urban scale.
02/2009 – 01/2010	<u>Shenzhen University, School of Architecture and Urban Planning.</u> Taught second year design studio, first year Visual Design lectures, postgraduate research methods, special design studio on parametric design
09/2008 – 10/2008	<u>Shenzhen University, School of Architecture and Urban Planning.</u> Co-taught Strategic Tools for Innovation lectures and workshops
05/2008 – 07/2008	<u>The Hong Kong Polytechnic University, School of Design.</u> Co-taught Strategic Tools for Innovation lecture series in MDes and MBA programmes
2007	<u>The University of Hong Kong, Department of Architecture.</u> Co-taught 14-week design studio at BArch level during the winter semester 2007
10/2006	<u>The University of Hong Kong, Department of Architecture.</u> Co-taught 3-week studio project at BArch level
04/2006	<u>National Cheng Kung University, Taiwan, Department of Architecture.</u> Toolmaking, preparation and remote tutoring for a one-week generative design workshop
09/2005	<u>The University of Hong Kong, Department of Architecture.</u> Taught 2-week studio project at MArch level

1998-2001 University of Kassel, Germany, School of Architecture. Planning and execution of CAAD-related workshops (design and 3D-modelling) (<http://www.uni-kassel.de/fb12/cadlab/kurse/angebot.html>)

DESIGN WORK

06/2009 – 01/2010 Shenzhen University, Design Institute. Design of hotel and office towers, advising and supporting Design Institute on questions of complex geometry.

AWARDS AND EXHIBITIONS

2008 Award "Best Paper". CAADRIA2008 Conference at Chiang Mai University, Chiang Mai, Thailand

2004 4-year PhD Scholarship at the Department of Architecture, Hong Kong University.

11/2003 Thesis exhibition at City of Life – Hong Kong Architecture & Art Influence Exhibition

2002- Temple Sagrada Familia, Gaudí School Museum, Barcelona, Spain. Permanent Exhibition of two educational interactive installations on ruled-surface geometry in Gaudí architecture

2002 Award "Best Paper". CAADRIA2002 Conference at the Multimedia University, Cyberjaya, Malaysia

2002 Award "Best Presentation". CAADRIA2002 Conference at the Multimedia University, Cyberjaya, Malaysia

2002 Exceptional extension of DAAD Scholarship for attendance of Masters Program at the School of Architecture, Hong Kong University.

2001 Diploma project chosen as 'diploma of the week' in the 'Diplom der Woche' competition at Baunetz.de, German online forum for architecture. (<http://www.BauNetz.de/diplom>)

2001 DAAD Scholarship for attendance of Masters Program at the Department of Architecture, Hong Kong University.

1999 Deakin University (Australia), School of Architecture: Research scholarship

PUBLICATIONS

Thomas Fischer, Christiane M. Herr, Cristiano Ceccato: Towards Real Time Interaction Visualization in Networked Education in Design. In: *ACADIA 2000, Conference Proceedings*, Catholic University of America, Washington DC, October 2000

Thomas Fischer and Christiane M. Herr: Teaching Generative Design. In: Soddu, Celestino et al. (ed.): *The Proceedings of the 4th Conference and Exhibition on Generative Art 2001.* Generative Design Lab, DiAP, Politecnico di Milano University, Italy 2001

Thomas Fischer, Christiane M. Herr, Mark C. Burry and John H. Frazer: Tangible Interfaces to Explain Gaudí's use of Ruled-Surface Geometries. *Interactive Systems Design for Haptic, Non-Verbal Learning.* In: Eshaq, A. R. M. et al. (eds.): *CAADRIA2002. Proceedings of the Seventh Conference on Computer Aided Architectural Design Research in Asia.* Faculty of Creative Multimedia, Multimedia University, Cyberjaya, Malaysia. Prentice Hall, New York and London 2002, pp. 131-138. Also published in: *Automation in Construction* Vol. 12, Issue 5 (September 2003), pp. 467-471

Christiane M. Herr: Generative Architectural Design and Complexity Theory. In: Soddu, Celestino et al. (ed.): *The Proceedings of the 5th Conference and Exhibition on Generative Art 2002.* Generative Design Lab, DiAP, Politecnico di Milano University, Italy 2002, pp. 16.1-10.12

Christiane M. Herr: Challenging Cookie-Cutter Architecture using Cellular Automata. In: Soddu, Celestino et al. (ed.): *The Proceedings of the 6th Conference and Exhibition on Generative Art 2003.* Generative Design Lab, DiAP, Politecnico di Milano University, Italy 2003, pp. 72-81

Christiane M. Herr and Thomas Fischer: Using Hardware Cellular Automata to simulate Use in Adaptive Architecture. In: Hyun Soo Lee and Jin Won Choi: *Proceedings of the Ninth CAADRIA Conference.* Institute of Millenium Environmental Design and Research, Yonsei University Press, Korea 2004, pp. 815-828

Thomas Fischer and Christiane M. Herr: Identity Crisis and High-Speed Urbanism. Form and Morphogenetic Process as Generators of Design Identity. In: Soddu, Celestino: *Proceedings of the AsiaLink Seminar De Identitale.* Rome, Italy, 2004, pp. 109-116

Christiane M. Herr and Thomas Kvan: Using Cellular Automata to Generate High-Density Building Form. In: Martens, Bob and Brown, André (eds.): *Computer Aided Architectural Design Futures 2005. The Proceedings of The Eleventh International Conference on CAAD Futures.* Springer Verlag, Dordrecht 2005, pp. 249-258

Christiane M. Herr, Thomas Fischer, Wang Hao Feng and Ren Wei: Demand-Driven Generative Design of Sustainable Housing for China. In: Tsou Jin-Yeu et al. (eds.): *Proceedings of the Fifth China Urban Housing Conference*, Vol. 2. China Architecture and Building Press, Hong Kong, 2005, pp. 703-710

Christiane M. Herr and A. Scott Howe: A High-Density Open Building Studio Project for Hong Kong. In: *Open House International*, Vol. 31, No. 2 2006, pp. 32-41

Christiane M. Herr and Thomas Kvan: Adapting cellular automata to support the architectural design process. In: *Automation in Construction* Vol. 16, Issue 1 (January 2007), pp. 61-69

Thomas Fischer, and Christiane M. Herr: The Designer as Toolbreaker? Probing Tool Use in Applied Generative Design. In Yu, G., Zhou, Q. and Dong, W. (eds), *CAADRIA 2007. The Proceedings of The Twelfth International Conference on Computer-Aided Architectural Design Research in Asia*, School of Architecture, Southeast University and School of Architecture Nanjing University, Nanjing, China, 2007, pp. 381-389

Christiane M. Herr and Justyna Karakiewicz: Algogram: Automated diagrams for an architectural design studio, in Dong, A., Vande Moere, A. and Gero, J. (eds), *Computer-Aided Architectural Design Futures (CAADFutures) 2007, Proceedings of the 12th International CAADFutures Conference*, Springer, Dordrecht, pp. 167-180

Christiane M. Herr and Justyna Karakiewicz: Towards an Understanding of Design Tutoring: A grounded study of presentation materials used in tutorial conversations, *CAADRIA 2008. The Proceedings of The Thirteenth International Conference on Computer-Aided Architectural Design Research in Asia*, School of Architecture, Chiang Mai University, Chiang Mai, Thailand 2008, pp. 321-327

Christiane M. Herr: Appropriating Donald Schön. Examining interpretations of Schön's work in recent CAAD research, *CAADRIA 2009. Between Man and Machine: Integration / Intuition / Intelligence. Proceedings of The Fourteenth International Conference on Computer-Aided Architectural Design Research in Asia*, Department of Digital Media Design, National Yunlin University of Science and Technology, Douliu, Taiwan 2009, pp. 483-492

Christiane M. Herr: Stage-based design briefing beyond the waterfall model, *CAADRIA 2010. New Frontiers. Proceedings of The Fifteenth International Conference on Computer-Aided Architectural Design Research in Asia*, Department of Architecture, The Chinese University of Hon Kong, Hong Kong 2010, pp. 199-208

Christiane M. Herr and Thomas Fischer: Digital Drifting: Minimally Instructive Education for Tool-aided Creativity in Asia, *Cybernetics and Human Knowing*, Vol. 17 (1-2) 2010, pp. 37-57.

Christiane M. Herr: Briefing Architectural Design Studio Processes: Linear Stages versus Cumulative Layers, *ArS Architecture Science* Vol. 1 (June 2010), pp. 41-55.

Christiane M. Herr: Theme Studio: Interview, *Topos 6* (Journal of Shenzhen University College of Architecture and Urban Planning), 2010, pp. 39-42.

Christiane M. Herr: Supporting design thinking with evocative digital diagrams, in: Gu, Ning and Wang, Xiangyu (eds.), *Computational Design Methods and Technologies: Applications in CAD, CAM and CAE Education*, 2010, forthcoming.

Christiane M. Herr: Mutually Arising Abstract and Actual as a Compositional Device, post-conference publication of C:ADM2010 in *Kybernetes*, forthcoming.

Christiane M. Herr: Messy Algorithms at the Urban Scale, *Proceedings of ALGODE - International Symposium on Algorithmic Design for Architecture and Urban Design*, Tokyo 2011, 14-16 March, forthcoming.

Christiane M. Herr: Gains, losses and limitations in designing parametrically, *CAADRIA 2011. Circuit Bending, Breaking and Mending, Proceedings of the 16th International Conference on Computer-Aided Architectural Design Research in Asia*, Newcastle University, Australia, forthcoming.

REVIEWER AND CHAIR

Peer reviewer for CAADRIA, eCAADe, ACADIA and CAADFutures conferences and IJAC and Kybernetes journals. CAADRIA Postgraduate Consortium Chair. Chair of Paper selection committee for CAADRIA 2011.

COMPUTATIONAL SKILLS

3DSMAX (3D modelling and animation), MAXScript, Maya (3D modelling and animation), MEL, AutoCAD, AutoLISP, Rhinoceros, Rhinoscript, Grasshopper, Visual Basic, ArchiCAD, SolidThinking, AccuRender, Scheme, LaTeX, (D)HTML, VRML, JavaScript, Flash ActionScript

MEMBERSHIPS

CAADRIA, American Society for Cybernetics (Vice President for Electronic Publications)

LANGUAGES

German (mother tongue), English (fluent), Mandarin (intermediate), French (fluent), Spanish (basic)

SPORTS

Marathon running

ACADEMIC REFEREES

Prof. Manfred Grohmann, Fachbereich Architektur, Universität Gesamthochschule Kassel, Germany

Dr. Dr. A. Scott Howe, Senior Systems Engineer, NASA/Caltech, JPL, Pasadena, USA

Prof. Thomas Kvan, Dean, Faculty of Architecture, The University of Melbourne, Australia