

**Chunming Gao**  
Assistant Professor  
Institute of Technology  
University of Washington Tacoma  
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## Education

PHD, Michigan Technological University, 2011.

Major: Computer Science

Supporting Areas of Emphasis: Pervasive Computing & Human Computer Interaction

Dissertation Title: Study of Accelerometer Assisted Single Key Positioning User Input Systems

MS, Michigan Technological University, 2004.

Major: Computer Science

Supporting Areas of Emphasis: Superscalar Processor Design & Instruction Level Parallelism

Dissertation Title: Design Tradeoffs in Instruction Window of Superscalar Processors

BS, Beijing Normal University, Beijing, 1989.

Major: Astrophysics

Supporting Areas of Emphasis: Astronomy Science and Technology

Dissertation Title: Developing an Astronomy Research Database

## Professional Positions

Assistant Professor – *University of Washington Tacoma, Institute of Technology* (2016–Present)

Assistant Professor – *Michigan Technological University, School of Technology* (2011-2016).

Lecturer – *Michigan Technological University, School of Technology* (2007-2011).

System and Database Administrator – *JRVP Library at Michigan Tech University* (2005-2007)

Software Engineer / IT Director – *Bank of China, Shandong, China* (1991-1999)

## Professional Memberships

ACM SIGCHI Member

ACM SIGCSE Member

## Awards and Honors

### Creative/Scholarship/Research

PI, Michigan Tech, Blended Learning Project, Michigan Tech Teaching Center. (January 8, 2015).

PI, Michigan Tech Research Excellence Fund Grant, VP for Research Office. (July 1, 2013 – August 31, 2015).

PI: Michigan Tech, Instructional Improvement and Innovation Grant, Center for Teaching, Learning, and Faculty Development. (November 6, 2011).

PI: Michigan Tech, Instructional Improvement and Innovation Grant, Center for Teaching, Learning, and Faculty Development. (February 18, 2011).

PI: Michigan Tech, Instructional Improvement and Innovation Grant, Center for Teaching, Learning, and Faculty Development. (November 12, 2010).

PI: Michigan Tech, Instructional Improvement and Innovation Grant, Center for Teaching, Learning, and Faculty Development. (February 16, 2010).

PI: Michigan Tech, Instructional Improvement and Innovation Grant, Center for Teaching, Learning, and Faculty Development. (November 13, 2008).

## **Teaching**

Top 10% best instructors by student evaluations. (March 29, 2011).

## **TEACHING**

### **Teaching Experience**

#### **University of Washington Tacoma (Autumn 2016 -- )**

TINFO360 Systems Analysis and Design

TINFO480 Research Methods in HCI

TINFO200 Programming for IT

TINFO230 Web Design and Programming

TINFO310 Foundation of Information Assurance

TINFO410 Database Design

#### **Michigan Technological University (2007—2016)**

Introduction to Database Management (Oracle SQL)

Introduction to C Programming

Human-Computer Interaction Research Methods

Healthcare Statistics

Healthcare IT Security Management

Advanced Unix & Linux Server System Administration

Microsoft System Administration I

Wireless System Administration

Senior Design

## **RESEARCH**

### **Published Intellectual Contributions**

#### **Peer Reviewed/Refereed Journal Articles/Conference Proceedings**

Noriyuki Iwane, Chunming Gao, Makoto Yoshida. "*Effects of quizzes in marking supported e-learning*", Proceedings of the 11th International Conference on Ubiquitous Information Management and Communication. (IMCOM 2017 Conference)

- Chunming Gao, Noriyuki Iwane. "Developing a Prototype for Evaluations of Healthcare Appointment and Registration Smart Assistant", 2016 International Conference on Computational Science and Computational Intelligence. (CSCI 2016 Conference)
- Noriyuki Iwane, Chunming Gao, Makoto Yoshida, Hajime Kishida. (2016). "A Study on Haptic Media to Support Verbal Explanations", *19<sup>th</sup> International Conference on Interactive Collaborative Learning (ICL2016)*
- Gao, C., Iwane, N. (2015). "A Social Network Model with Privacy Preserving and Reliability Assurance and Its Applications in HealthCare", *International Journal of Energy, Information and Communications*
- Gao, C., Iwane, N. (2015). "A Social Network Model for Big Data Privacy Preserving and Accountability Assurance", *12th Annual IEEE Consumer Communications and Networking Conference*
- Iwane, N., Gao, C. (2014). "Study of Using Handwritten Annotations on Digital Textbooks" IEEE International Conference on Advanced Applied Informatics
- Gao, C., Iwane, N. (2014). "Application of A Blended Active Learning Model in Teaching Computer Programming to Non-majors" The 45th ACM Technical Symposium on Computer Science Education
- Gao, C., Iwane, N. (2014). "Developing a Multi-trust Model for Multi-purpose Healthcare Social Networks" 11th Annual IEEE Consumer Communications & Networking Conference
- Gao, C., Pastel, R. L., Tan, J. (2013). "An Experimental Study of a New Channel for Data Input On Small Mobile Devices", *Journal on Knowledge and Data Engineering*
- Iwane, N., Gao, C., Yoshida, M. (2013). "A Method for knowledge Acquisition from Handwritten Mark on Digital Text" The 2nd International Workshop on Smart Technologies for Energy, Information and Communication
- Iwane, N., Gao, C. (2013). "Question Generation for Learner Centered Learning" 2013 IEEE International Conference on Advanced Learning Technologies
- Li, C., Chigan, C., Gao, C. (2013). "Compressive Sensing based Data Collection in VANETs", *IEEE 2013 Wireless Communications and Networking Conference IEEE*
- Li, Z., Chigan, C., Gao, C. (2013). "STCP2: Short-Time Certificate-based Privacy Protection for Vehicular Ad Hoc Networks", *IEEE 2013 Wireless Communications and Networking Conference IEEE*
- Hendrick, E., Schooley, B., Gao, C. (2013). "CloudHealth: Developing A Reliable Cloud Platform for Healthcare Applications", *IEEE 2013 International Workshop on Consumer eHealth Platforms, Services and Applications IEEE*
- Levin, E., Gao, C., Carter, J. (2012). "RESEARCH IN HANDS-FREE CONTROL OF DIGITAL PHOTOGRAMMETRIC 3D MEASUREMENTS", *ISPRS "From Imagery to Mapping workshop, Lisbon*

- Gao, C., Pastel, R. L., Tan, J. (2012). "TiltClick: One-Handed Eyes-Free Numeric and Symbol Input for Calculator Applications", *IEEE International Virtual Environments, Human-Computer Interfaces, and Measurement Systems*
- Gao, C., Hembroff, G. C. (2012). "Implications of Modified Waterfall Model to the Roles and Education of Health IT Professionals", *7th IFIP/IEEE International Workshop on Business-driven IT Management*
- Gao, C., Pastel, R. L., Tan, J. (2010). "Yet Another User Input Method: Accelerometer Assisted Single Key Input", *Proceedings of World Congress on Intelligent Control and Automation (WCICA 2010)*
- Wang, X., Mayo, J., Hembroff, G. C., Gao, C. (2009). "Detection of Conjunctive Stable Predicates in Dynamic Systems", *Proceedings of The Fifteenth International Conference on Parallel and Distributed Systems (ICPADS'09)* IEEE Computer Society Press, ( pp. 828 - 835).
- Gao, C., Tan, J., Kong, F. (2009). "HealthAware: Tackling Obesity with Health Aware Smart Phone Systems", *IEEE International Conference on Robotics and Biomimetics*

#### **Dissertation Publication**

- Gao, C. (2011). "Study of accelerometer assisted single key positioning user input systems" ProQuest (*Published*)

## **SERVICE**

### **Editorial and Professional Activities**

- Reviewer for UW Royalty Research Fund proposal (Autumn 2016 and Spring 2017)
- TPC member and Reviewer for the 12th International Conference on Wireless Algorithms, Systems, and Applications (WASA 2017)
- NSF Grant Proposal Reviewer, External, NSF TUES Panel Review, Member. (2012).
- FCT Grant Proposal Reviewer, External, Grant Proposal Review for Portuguese Foundation for Science and Technology (FCT), Member. (2012).
- Editorial Board Member, "Journal of Advanced Computer Science & Technology," Science Publishing Corporation. Appointed. (March 31, 2012 - Present).
- Editorial Board Member, "International Journal of Information Science," Scientific and Academic Publishing. Elected. (December 5, 2011 - Present).
- Conference Session Chair, Conference Session Chair -- IEEE International Conference on Virtual Environments, Computer-Human Interfaces, and Measurement Systems 2012. (July 4, 2012).

Conference Panel, First International Workshop on Hot Topics in Big Data and Networking  
(HotData), Member. (December 10, 2013 - August 31, 2014).  
Conference/Journal Paper Reviewers for SIGITE2015 / CHI2012,2011 / INFOCOM2012 /  
PDS2012,2011 / SUSCOM2011,2010 / IJCN2011,2010