

## EDUCATION

<b>Massachusetts Institute of Technology (MIT), Cambridge, MA, U.S.A.</b> Ph.D., Computer Science Thesis: Web Page Enhancement on Desktop and Mobile Browsers Advisor: Prof. Robert C. Miller	2013
<b>National Taiwan University (NTU), Taipei, Taiwan</b> M.S., Computer Science and Information Engineering (CSIE) Thesis: <i>Butterpre</i> - Preparing Course Material from a Digital Museum of Butterflies Advisor: Prof. Jieh Hsiang	2000
<b>Tamkang University (TKU), Taipei, Taiwan</b> B.Eng., Computer Science and Information Engineering (CSIE)	1998

## ACADEMIC APPOINTMENTS

<b>Northeastern University</b> Teaching Professor, Multidisciplinary Graduate Engineering (MGEN), College of Engineering (COE)	08/2022 - Present
<b>Wentworth Institute of Technology</b> Associate Professor, School of Computing and Data Science Assistant Professor with Tenure, Department of Computer Science and Networking Assistant Professor, Department of Computer Science and Networking	01/2019 - 08/2022 04/2018 - 12/2018 09/2014 - 04/2018
<b>The Center for Dynamical Biomarkers, Beth Israel Deaconess Medical Center / Harvard Medical School</b> Affiliate Faculty	09/2018 - Present
<b>User Interface Design (UID) group, CSAIL, MIT</b> Research Assistant	09/2006 - 12/2012
<b>6.470 Web Programming Competition, MIT</b> Instructor and Staff	2008, 2009, 2010
<b>6.813/6.831 User Interface Design and Implementation, EECS, MIT</b> Teaching Assistant	01/2009 - 06/2009
<b>Information System Training Courses, CSIE, NTU</b> Instructor	06/1999 - 07/2000
<b>Calculus, CSIE, NTU</b> Teaching Assistant	09/1998 - 07/1999

## INDUSTRIAL EMPLOYMENT

<b>Prentice Lab LLC</b> Founder and CEO	06/2013 - Present
<b>Stanford University</b> Instructor, University IT	11/2021 - Present
<b>PetPace LLC</b> Director of Mobile Engineering and User Experience	06/2013 - 05/2014
<b>PetPace LLC and Zappix Inc.</b> Director of Mobile Engineering and User Experience	06/2013 - 12/2013
<b>Quanta Research Cambridge (QRC) Inc.</b> Senior Technical Manager and Senior Member of Technical Staff	12/2012 - 06/2013
<b>IBM T.J. Watson Research Center</b> Research Intern	06/2010 - 09/2010
<b>Quanta Computer Inc.</b> Associate Technical Manager	07/2000 - 06/2006

## COURSES TAUGHT AND DESIGNED

<b>Northeastern University</b>
• CSYE 6200: Concepts of Object-Oriented Design (Fall '22, Spring '23, Summer '23, Fall '23, Spring '24, Fall '24, Spring '25)
• INFO 5100: Application Engineering and Development (Coursera) (Spring '24, Summer '24, Fall '24, Spring '25)

- INFO 6205: Program Structure and Algorithms (Spring '24, Fall '24, Spring '25)
- CSYE 7990: Thesis (Fall '24)
- CSYE 7945: Master's Project (Spring '24)
- INFO 7990: Thesis (Fall '24)
- INFO 7945: Master's Project (Spring '24, Spring '25)
- Mastering UX & Business App Development with OOP (MOOC in Coursera) (Summer '24, Fall '24)
- GE4100: Engineering for Mobile Applications (DOC program) (Summer '25)
- GE4102: Research in Mobile Engineering (DOC program) (Summer '25)

### Wentworth Institute of Technology

- COMP 5500: Senior Project (Summer '20, Summer '21)
- COMP 3800: Mobile Health (Fall '19)
- COMP 3800: International EPIC Project (Summer '19)
  - The hybrid model of online (2-month) & on-campus (2-month) for the students in different countries
- Mobile Health System and Homecare Medical Device - Design, Implementation and Analysis (Course Design)
  - ★ **2016-17 Presidential EPIC Mini-Grants Award**
- COMP 7800: EHealth Research (Fall '18) - [Graduate Level Course](#)
- COMP 7200: Mobile App Development (Fall '17, Summer '18) - [Online Graduate Level Course](#)
- COMP 3800: Mobile Health System and Homecare Medical Device (Summer '18)
  - ★ **2017-18 Presidential EPIC Mini-Grants Award**
- COMP 685/406/3800/3660: Mobile App Development (Android and iOS) (Spring '15, Summer '15, Spring '16, Summer '16, Spring '17, Summer '17, Spring '18, Summer '18, Fall '18, Spring '19, Summer '19, Spring '20, Spring '21, Summer '21, Spring '22, Summer '22)
- COMP 2990: Independent Study (Advanced Web Development) (Fall '18)
- COMP 2990: Independent Study (Advanced Mobile Research) (Spring '20)
- COMP 553/3670/4650: Web Development (Summer '15, Summer '16, Fall '16, Summer '17, Spring '18, Spring '19, Spring '20, Summer '20, Spring '21, Spring '22)
- COMP 3800: Medical Device and Software Design for Mobile Health (Summer '16)
  - ★ **2015-16 Presidential EPIC Mini-Grants Award**
- COMP 310/2000: Data Structures (Spring '15, Fall '21, Summer '22)
- COMP 285: Object-Oriented Programming in Java (Fall '14)
- COMP 1000: Computer Science I in Java (Fall '15, Fall '16, Fall '17, Fall '19, Fall '20, Fall '21)
- COMP 1050: Computer Science II in Java (Spring '16, Spring '17, Fall '18, Summer '22)
- COMP 1071: Computer Science II - Problem Solving with C++ (Fall '15)
- COMP 128: Computer Science I - Problem Solving with C++ (Fall '14)

### Stanford University, University IT Technology Training

- Exploring Human-Computer Interaction (Spring '22, Summer '22, Spring '23)
- Build an Android App in a Day (Summer '22, Summer '23)
- Fundamentals of Programming (Spring '23)
- Fundamentals of Object-Oriented Programming (Spring '23)
- Getting Started in Programming (Summer '22, Summer '23, Summer '24)

### Harvard Medical School (The Center for Dynamical Biomarkers, Beth Israel Deaconess Medical Center)

- Introduction to Microcontroller Programming for Mobile Health (Summer '19)
- Practical Data Science with Python (Fall '18)
- Introduction to Python Programming (Summer '17)
- Machine Learning with Python (Summer '17)

### Massachusetts Institute of Technology (MIT)

- 6.470: Web Programming Competition (IAP '08, IAP '09, IAP'10)

### National Taiwan University (NTU)

- Multimedia Web Page Design ('99, '00)
- Internet Web Page Design ('99, '00)

## PUBLICATIONS

### Thesis

1. **Chen-Hsiang Yu.** "Web Page Enhancement on Desktop and Mobile Browsers." Ph.D. Thesis, MIT, 2012.
2. **Chen-Hsiang Yu.** "*Butterpree* - Preparing Course Material from a Digital Museum of Butterflies." Master Thesis, Dept. of Computer Science and Information Engineering, National Taiwan University, 2000. ( ★ [Finalist in Thesis Competition](#),

## Book Chapters

1. Robert C. Miller, Michael Bolin, Lydia B. Chilton, Greg Little, Matthew Webber, and **Chen-Hsiang Yu**. "Rewriting the Web with Chickenfoot." *No Code Required: Giving Users Tools to Transform the Web*, Morgan Kaufmann, 2010.
2. Lydia B. Chilton, Robert C. Miller, Greg Little, and **Chen-Hsiang Yu**. "Why We Customize the Web." *No Code Required: Giving Users Tools to Transform the Web*, Morgan Kaufmann, 2010.

## Patent

1. **Chen-Hsiang Yu** and Ming-Ru Jiang. "Internal Code Control System and Method for Wireless Data Download." No. 589859, R.O.C. Taiwan, Dec. 2004.

## Journal Papers

1. Hsiao-Wen Lin, Trang-Thi Ho, Ching-Ting Tu, Hwei Jen Lin and **Chen-Hsiang Yu**. Meta Learning-based Optimization of Unsupervised Domain Adaptation Deep Networks. *Mathematics* 2025, 13(2), 226. doi: 10.3390/math13020226 (Received: 12 December 2024; Revised: 5 January 2025; Accepted: 06 January 2025; Published: 10 January 2025)
2. Hsiao-Wen Lin, Yihjia Tsai, Hwei Jen Lin, **Chen-Hsiang Yu**, Meng-Hsing Liu. Unsupervised domain adaptation with deep network based on discriminative class-wise MMD. *AIMS Mathematics*, 2024, 9(3): 6628-6647. doi: 10.3934/math.2024323 (Received: 18 August 2023; Revised: 24 October 2023; Accepted: 05 November 2023; Published: 06 February 2024)
3. **Chen-Hsiang Yu**, Zachary Shelton, Omar Abou Nassif Mourad and Mohamed A. Oulal. Readability Enhancement for PDF Documents. *Frontiers in Computer Science - Human-Media Interaction*, July 2021. (Received: 13 Nov 2020; Accepted: 22 July 2021; Published: 05 August 2021)

## Peer-reviewed Conference Papers

1. Orijit Bhattacharya, QingQing Liu, Hwei Jen Lin and **Chen-Hsiang Yu**. "DoggyTongue: Automate Tongue Segmentation for TCM Diagnosis." *2024 IEEE International Conference on E-health Networking, Applications & Services (IEEE Healthcom 2024)*, November 2024.
2. Christian Williams, Andrew Lee, Ahmed Tolah, Mohammadjavad Einafshar, Elie Massaad, Ali Kiapour and **Chen-Hsiang Yu**. "Mobile-enabled Prosthetic System with Machine Learning Support." *2024 IEEE International Conference on E-health Networking, Applications & Services (IEEE Healthcom 2024)*, November 2024.
3. Mengting Wang, Yen Le and **Chen-Hsiang Yu**. "MedCare4Home: A Mobile Medial System for Families." *2023 IEEE International Conference on E-health Networking, Applications & Services (IEEE Healthcom 2023)*, December 2023.
4. Alex Grant, James Ferrarelli, Maximilian Rozano, QingQing Liu, Jiaming Su and **Chen-Hsiang Yu**. "TCM Tongue Segmentation and Analysis with a Mobile Device." *2023 IEEE 6<sup>th</sup> International Conference on Electrical, Electronics, and System Engineering (IEEE ICEESE 2023)*, August 2023.
5. Paul Lussier and **Chen-Hsiang Yu**. "Applying IoT and Deep Learning for ECG Data Analysis." *2022 IEEE Global Conference on Artificial Intelligence and Internet of Things (IEEE GCAIoT 2022)*, December 2022.
6. Huike Wang, **Chen-Hsiang Yu** and Xiao Yang. "Web Accessibility Enhancement for Medical Consultation Platforms." *The 17th International Conference on Computer Science & Education (ICCSE 2022)*, August 2022.
7. Nicholas Foley and **Chen-Hsiang Yu**. "MusCare+: Muscle Monitoring for Anomalies." *IEEE World AI IoT Congress (IEEE AIOT 2022)*, June 2022.
8. Abhi Pote Shrestha and **Chen-Hsiang Yu**. "ECG Data Analysis with IoT and Machine Learning." *IEEE 12th Annual Computing and Communication Workshop and Conference (IEEE CCWC 2022)*, January 2022.
9. Yen Le, Lam Pham, QinQing Liu and **Chen-Hsiang Yu**. "Mobile Question System for TCM Data Collection." *The 2021 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2021.
10. Tung Pham, QingQing Liu and **Chen-Hsiang Yu**. "Enhancing Pulse Measurement with IoT Technologies for TCM." *The 2021 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2021.
11. Abhi Pote Shrestha and **Chen-Hsiang Yu**. "ECG Data Analysis with MSE and Machine Learning." *The 2021 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2021.
12. QianYing Zeng, Donovan Ramsey and **Chen-Hsiang Yu**. "Enhanced Mobile Microclimate System." *The 2021 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2021.
13. Noelle R. Benavides, Hayley E. Rutkey, Courteney M. DiDomenico, Tin Wong, Joe Martel-Foley, **Chen-Hsiang Yu** and Ali Kiapour. "A Wearable Mobile-App Controlled Device for Continuous Monitoring of UV Exposure and Hydration Levels." *IEEE 11th Annual Computing and Communication Workshop and Conference (IEEE CCWC 2021)*, January 2021. (★ Best Paper Award)
14. Halmon Lui and **Chen-Hsiang Yu**. "System Design for Data Analysis with Multiscale Entropy." *IEEE International Conference on*

15. QianYing Zeng and **Chen-Hsiang Yu**. "Mobile Microclimate System for Architectural Fieldwork." *The 2020 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2020.
16. Christopher Dombale and **Chen-Hsiang Yu**. "MusCare: A Mobile Design for Muscle Monitoring." *The 2020 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2020.
17. Tung Pham, QingQing Liu and **Chen-Hsiang Yu**. "System Design for Remote Pulse Examination." *The 2020 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2020.
18. Zachary Shelton and **Chen-Hsiang Yu**. "A Framework for PDF Readability Enhancement." *The 17th International Web for All Conference (W4A 2020)*, Apr. 2020.
19. Lam Pham and **Chen-Hsiang Yu**. "How to Improve English Listening Skills? Try Video Flashcards." *The 18th Annual Hawaii International Conference on Education (HICE)*, Jan. 2020.
20. Adam Conneely and **Chen-Hsiang Yu**. "Acupuncsloth: Applying Acupuncture Studies to Wearable Massage Device." *The 2019 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2019.
21. Brandon Horowitz, **Chen-Hsiang Yu**, Leonidas Deligiannidis. "Canarycurity: A Redundant Security Surveillance System Built with Mobile and IoT Technologies." *The 20th Int'l Conf on Internet Computing and Internet of Things (ICOMP'19)*, July 2019.
22. Leonidas Deligiannidis, **Chen-Hsiang Yu**, Mira Yun and Hongsheng Wu. "Case Study: Skymap Data Analysis." *The 21<sup>st</sup> International Conference on Artificial Intelligence (ICAI'19)*, July 2019.
23. Halmon Lui and **Chen-Hsiang Yu**. "Security Lessons from Building a Back-End Service for Real-Time Data Collection." *The 2019 International Conference on Security and Management (SAM'19)*, July 2019.
24. Tomoki Shibata, Alena Borisenko, Anzu Hakone, Tal August, Leonidas Deligiannidis, **Chen-Hsiang Yu**, Matthew Russell, Alex Olwal and Robert J.K Jacob. "An Implicit Dialogue Injection System for Interruption Management." *The 10th Augmented Human International Conference (AH2019)*, March 2019.
25. Lam Pham, **Chen-Hsiang Yu** and Mira Yun. "Fennec: Enhancing English Listening Skills with Video-Watching Experiences." *The 17th Annual Hawaii International Conference on Education (HICE)*, January 2019.
26. Sean Guillen, Chris Fernandes, Mira Yun, **Chen-Hsiang Yu** and Magdy Ellabidy. "ReadyComm: A Hands-on Practice for VoIP Network." *The 17th Annual Hawaii International Conference on Education (HICE)*, January 2019.
27. Phyu Han, Glenn Price, Leonidas Deligiannidis and **Chen-Hsiang Yu**. "A Security System Built with Mobile and IoT Technologies." *The 5th Annual Conference on Computational Science & Computational Intelligence - Internet of Things & Internet of Everything (CSCI-ISOT 2018)*, December 2018.
28. Nicholas Clark, Thomas Evangelista, John Scarfo, Garrett Stonis, **Chen-Hsiang Yu** and Mira Yun. "Knockoff Drive: A Portable Data Storage System." *The 2018 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2018.
29. Taylor Pratt, Francesca Matira, Emily Jodoin, Kyle Levasseur, Ali Kiapour and **Chen-Hsiang Yu**. "An App-Controlled Brace for Stabilization of the Shoulder Joint." *The 2018 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2018.
30. Sofia Lee, Riad Touma, Issac Rico, Scott Borges, Ali Kiapour and **Chen-Hsiang Yu**. "MedTime – Medication Adherence Improvement." *The 2018 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2018.
31. Kendra A. Norbaka, Allison M. Rishmany, Joseph J. O'Hara, Paul V. Filippone, Greg Frasco, **Chen-Hsiang Yu** and Ali Kiapour. "DynoBrace: Stability Control of Ankle Joint Using a Mobile App Controlled Smart Brace Device." *The 2018 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2018.
32. Jonathan Sudiaman, Tareq Almutairi, Mira Yun, **Chen-Hsiang Yu** and Leonidas Deligiannidis. "Undergraduate Project Example: LizardTag - An NFC-based System for Attendance Management." *The 14th International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS)*, July 2018.
33. Greg Frasco, Ali Kiapour and **Chen-Hsiang Yu**. "A Dynamic, Mobile Application Controlled, Brace for Stabilization of the Ankle Joint." *The 8<sup>th</sup> World Congress of Biomechanics (WCB)*, July 2018.
34. Eric Alfano, Meaghan Callahan, Mira Yun, Magdy Ellabidy and **Chen-Hsiang Yu**. "Octopus: Software-Defined Networking (SDN) for Undergraduate Education." *The 16<sup>th</sup> Annual Hawaii International Conference on Education (HICE)*, January 2018.
35. Hwanky Park, Mira Yun and **Chen-Hsiang Yu**. "Telepubbies: A Wi-Fi Based Indoor Positioning System." *The 16th Annual Hawaii International Conference on Education (HICE)*, January 2018.
36. Leonidas Deligiannidis and **Chen-Hsiang Yu**. "Tarsier: A Light-Weight Framework for Visualizing Gravitational-Wave Transients". *The 4<sup>th</sup> Annual Conference on Computational Science and Computational Intelligence - International Symposium on Mobile Computing, Wireless Networks, and Security (CSCI-ISM 2017)*, December 2017.
37. Walaa M. Aljefri, Walla Y. Subgha, Yousef H. Aldossary, Justin Gagne, Greg Frasco, Ali Kiapour, **Chen-Hsiang Yu** and Rabeeh Majidi. "A Novel Mobile Application Controlled Adaptive Brace for Treatment of Ankle Joint Instability." *The 2017 IEEE MIT*

*Undergraduate Research Technology Conference (IEEE URTC)*, November 2017.

38. Robert Lew, Hongsheng Wu and **Chen-Hsiang Yu**. "Integrating Human Input for Decision Making with Informative Bayesian Beliefs." *AAAI Spring Symposium 2017*, Palo Alto, CA, March 2017.
39. Robert Lew, Hongsheng Wu and **Chen-Hsiang Yu**. "Programming Weakly Informative Prior Distributions." *SAS Global Forum 2017*, Orlando, FL, April 2017.
40. **Chen-Hsiang Yu** and Mira Yun. "A Wizard for School Opening Events." *The 15<sup>th</sup> Annual Hawaii International Conference on Education (HICE)*, January 2017.
41. Zi Wang, Howard Burpee, Hamza Tiridi, Justin Gagne, Greg Frasco, Rabeeh Majidi, **Chen-Hsiang Yu** and Ali Kiapour. "Smart Adaptive Boot for Ankle Instability Treatment." *The 2016 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, November 2016.
42. Brian Goldwyn, Andrew Pastore, James Spencer, Weihui Li and **Chen-Hsiang Yu**. "HealthVisor: A Look into Data-rich Bio-monitoring." *The 2016 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, November 2016.
43. Megdy Ellabidy, **Chen-Hsiang Yu** and Mira Yun. "Building a Cybersecurity Lab with Legacy Equipment." *The 9<sup>th</sup> Annual International Conference of Education, Research and Innovation (ICERI2016)*, Spain, November 2016.
44. Omar I. Hoblos, Matthew W. Sheehan, Devin J. Laferriere, and **Chen-Hsiang Yu**. "UVision: A Lightweight Portable UVR Detection System." *The 2015 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, November 2015.
45. Nic Bonzani, Edward Kang, **Chen-Hsiang Yu**, and Mira Yun. "Smart Guide: Mid-Scale NFC Navigation System." *The 2015 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, November 2015.
46. **Chen-Hsiang Yu** and Robert C. Miller. "Enhancing Web Page Readability for Non-native Readers." *In Proceedings of CHI 2010*, pp. 2523-2532, April 2010.
47. **Chen-Hsiang Yu** and Jieh Hsiang. "Butterpree – Preparing Course Material from a Digital Museum of Butterflies." *In International Conference on Computer Assisted Instruction and Internet Computing (CAIIC'2000)*, October 2000.
48. Chin-Hwa Kuo, Chia-Lin Chio, **Chen-Hsiang Yu**, and Wen-Yang Hsia. "In Supporting of Distributed Co-Editing Environment." *In Proceedings of International Computer Symposium (ICS)*, pp. 17-24, December 1998.
49. **Chen-Hsiang Yu**, Chia-Lin Chio and Wen-Yang Hsia. "In Supporting of distributed co-editing environment." *Acer Foundation*, December 1998. (★ [Undergraduate Dragon Thesis Award](#))

#### Peer-reviewed Workshop Papers

1. Jennifer Thom-Santelli, David R. Millen and **Chen-Hsiang Yu**. "Increasing Cultural Accessibility in a Global Organization." *Position paper at CHI 2011 Workshop, Transnational HCI: Humans, Computers, and Interactions in Transnational Contexts*, May 2011.
2. Jennifer Thom-Santelli, David R. Millen and **Chen-Hsiang Yu**. "Cultural Computing: Closing the Gaps in Participation." *CSCW 2011 Workshop, Designing Social and Collaborative Systems for China*, March 2011.
3. Chin-Hwa Kuo, **Chen-Hsiang Yu** and His-Tsung Wang. "The flow and concurrency control mechanism in CSCW." *Cross-centuries Information Technology Conference*, pp.114-127, February 1998.

#### Peer-reviewed Lightning Talk Papers

1. Ryan Parekh and **Chen-Hsiang Yu**. "Smell-rinkler: A Sprinkler Device for Scents." *The 2020 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2020.
2. Christopher Dombale and **Chen-Hsiang Yu**. "Mobile Health with EMG Sensor for Muscle Atrophy," *The 2019 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2019.
3. Tung Pham and **Chen-Hsiang Yu**. "Pulse Measurement for Traditional Chinese Medicine" *The 2019 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2019.
4. **Chen-Hsiang Yu**. "A Research-Oriented EPIC Course – Applying Mobile Technologies to Biomedical Research Questions." *The 50th ACM Technical Symposium on Computer Science Education (SIGCSE '19)*, February 2019.
5. Zachary Shelton and **Chen-Hsiang Yu**. "Readability Enhancement of PDF Files on Mobile Devices." *The 2018 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, October 2018.
6. **Chen-Hsiang Yu**. "Lessons learned from an EPIC course - Mobile Application Development for Mobile Health." *The 48th ACM Technical Symposium on Computer Science Education (SIGCSE '17)*, March 2017.

#### Peer-reviewed Poster Papers

1. Yan Ma, Jiamin Chen, Wanli Xu, and **Chen-Hsiang Yu**. "Deep Learning Models to Identify Insomnia Using Heart Rate Data During Wake Before Sleep Onset." *The 39th annual meeting of the Associated Professional Sleep Societies (SLEEP 2025)*, June 2025.



2. Yan Ma, Peter M. Wayne, **Chen-Hsiang Yu** and Gloria Y. Yeh. "Detecting Insomnia and Predicting Difficulty Falling Asleep: Machine Learning of Heart Rate Data during Sleep Onset." *The 38th annual meeting of the Associated Professional Sleep Societies (SLEEP 2024)*, June 2024.
3. Irene Fidone, Riccardo Cavadini, Fabiola Casasopra, Marco D. Santambrogio and **Chen-Hsiang Yu**. "Kangarucare: A Homecare System for Enhancing Medicine Adherence." *The 5th Annual Conference on Computational Science & Computational Intelligence – Health Informatics and Medical Systems (CSCI-ISHI 2018)*, December 2018.
4. Brandon Dalton and **Chen-Hsiang Yu**. "Capuchin: Learning Behind the Wheel." *The 2017 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)*, November 2017.
5. Brandon Dalton, **Chen-Hsiang Yu** and Mira Yun. "Jaguar: Indoor Navigation System for Organizations." *In Adjunct Proceedings of UIST 2017: ACM Symposium on User Interface Software and Technology (UIST)*, October 2017. (★ Best Poster Award)
6. **Chen-Hsiang Yu** and Hongsheng Wu. "BioTake: A Tool for Biostatistics Education." *The 15th Annual Hawaii International Conference on Education (HICE)*, January 2017.
7. Rong Chen, Niva Rao and **Chen-Hsiang Yu**. "Adaptive Data Analysis and Web Services for Biomedical Study." *The Japan-US Science Forum in Boston*, Harvard, November 2016.
8. Michael Carando, Damon Cole, Nicholas Poplar, Weihui Li and **Chen-Hsiang Yu**. "Smart Therma-glove System for Raynaud's Disease." *The Society for Computers in Psychology (SCiP)*, November 2016.
9. Howard Burpee, Hamza Tirida, ZiWang, Rabeeh Majidi, Ali Kiapour and **Chen-Hsiang Yu**. "Wellness Monitoring System Through Mems Technology." *The American Society for Engineering Education - Northeast Section Conference (ASEE-NE)*, Kingston, RI, April 2016.
10. Robert Lew, John Russo, **Chen-Hsiang Yu** and Hongsheng Wu. "Incorporating Prior Beliefs into Clinical Decisions." *The 37th Annual Meeting of the Society for Medical Decision Making*, St. Louis, MO, October 2015.
11. Erik Young, Ching-Kai Huang, Junichi Suzuki, **Chen-Hsiang Yu** and Douglas Dow. "Building Grandparent-Grandchild Relationships with an Interactive Networked Device," *American Society For Engineering Education – Northeast Section Conference (ASEE NE)*, Boston, MA, April 2015.
12. **Chen-Hsiang Yu** and Robert C. Miller. "Enhancing Web Page Skimmability." *Proceedings of the 2012 Annual Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA'12)*, May 2012.
13. **Chen-Hsiang Yu**. "Mobile Continuous Reading." *Proceedings of the 2012 Annual Conference Extended Abstracts on Human Factors in Computing Systems for Student Research Competition (CHI EA'12)*, May 2012.
14. **Chen-Hsiang Yu** and Robert C. Miller. "Enhancing Mobile Browsing and Reading." *Proceedings of the 2011 Annual Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA'11)*, pp. 1783-1788, May 2011.
15. **Chen-Hsiang Yu**, Jennifer Thom-Santelli and David R. Millen. "Enhancing blog readability for non-native English readers in the enterprise." *Proceedings of the 2011 Annual Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA'11)*, pp. 1765-1770, May 2011.
16. **Chen-Hsiang Yu** and Robert C. Miller. "Froggy: A Tool for Enhancing Web Page Readability." *In Adjunct Proceedings of UIST 2008: ACM Symposium on User Interface Software and Technology (UIST)*, October 2008.

#### Unreferred Papers

1. **Chen-Hsiang Yu** and Robert C. Miller. "The Study of Content Transformation for Web Page Readability Enhancement." *CSAIL Student Workshop (CSW)*, MIT, 2009.
2. **Chen-Hsiang Yu** and Robert C. Miller. "AINS: Asynchronous Interaction System for Preschoolers." *CSAIL Student Workshop (CSW)*, MIT, 2009.
3. **Chen-Hsiang Yu** and Robert C. Miller. "Froggy: A Tool for Enhancing Web Page Readability." *CSAIL Student Workshop (CSW)*, MIT, 2008.
4. **Chen-Hsiang Yu** and Oshani Seneviratne. "Webnnel: A channel-based Web navigation system." *CSAIL Student Workshop (CSW)*, MIT, 2008.
5. **Chen-Hsiang Yu** and Robert C. Miller. "Web Page Readability Enhancement." *CSAIL Student Workshop (CSW)*, MIT 2007.

#### Demonstrations

1. **Chen-Hsiang Yu**, M. Ehsan Hoque and Robert C. Miller. "Froggy GX: Enhancing Web Page Skimmability for Non-native Readers." *2012 MIT-China Innovation and Entrepreneurship Forum (MIT-CHIEF'12)*, November 2012.
2. **Chen-Hsiang Yu**, Jennifer Thom-Santelli and David R. Millen. "Clearly." *The Proceedings of the ACM 2011 conference on Computer Supported Cooperative Work (CSCW 2011)*, 2011.
3. **Chen-Hsiang Yu** and Robert C. Miller. "Froggy: A Tool for Enhancing Web Page Readability." *In Adjunct Proceedings of UIST 2008: ACM Symposium on User Interface Software and Technology*, October 2008.

## Posters

1. Jennifer Lee Michaliszyn and **Chen-Hsiang Yu**. "Smart Device for Architectural Fieldwork in Building Performance." *Faculty Showcase*, Wentworth, March 2020.
2. **Chen-Hsiang Yu** and Ali Kiapour. "New Course for EPIC Learning: Mobile Health System & Homecare Medical Device - Design, Implementation and Analysis." *Colleges of the Fenway (COF) Academic Technology Showcase*, Emmanuel, April 2018.
3. Ali Kiapour and **Chen-Hsiang Yu**. "A Smart Adaptive Brace for Treatment of Ankle Instability." *Colleges of the Fenway (CoF) Academic Technology Showcase*, Emmanuel, April 2018.
4. **Chen-Hsiang Yu** and Ali Kiapour. "New Course for EPIC Learning/Design: Development of Medical Devices Which Work With Mobile Applications for Experimental and Research Purposes." *Faculty Showcase*, Wentworth, March 2018.
5. Ali Kiapour and **Chen-Hsiang Yu**. "EPIC Project for Ankle Instability/Sprain." *Faculty Showcase*, Wentworth, March 2018.
6. **Chen-Hsiang Yu** and Mira Yun. "WOW: A Wizard for School Opening Events." *International Poster Session*, Wentworth Institute of Technology, November 2016.
7. Megdy Ellabidy, **Chen-Hsiang Yu** and Mira Yun. "Cybersecurity Lab with Legacy Equipment." *International Poster Session*, Wentworth Institute of Technology, November 2016.

## Technical Reports

1. **Chen-Hsiang Yu** and Weihui Li. "The final report of 2015-16 Presidential EPIC Mini-Grant." EPIC Office, Wentworth Institute of Technology, October 2016.

## SUPERVISED THESES

### Master's Theses: (As the Thesis Advisor)

- Abdullah Alnassir, "An IoT-based System for People with Visual Impairments," December 2024. (Multidisciplinary Graduate Engineering, College of Engineering, Northeastern University)
- Rishabh Jain, "NeuroDorphine - An AI-enabled Mobile Application for Alzheimer's Dementia," December 2024. (Multidisciplinary Graduate Engineering, College of Engineering, Northeastern University)

### Master's Theses: (As the Thesis Committee)

- Noctis Zhang, "Hybrid Meteorological Forecasting: ML-driven Predictions of Lake Michigan's Lake-Effect Snow on Urban Preparedness," September 2023. (Multidisciplinary Graduate Engineering, College of Engineering, Northeastern University)

## INVITED TALKS

- 2024.05.20: "Entropy, Calculation and Applications," Bouvé College of Health Sciences, Northeastern University, U.S.
- 2023.03.15: "Readability Enhancement and Mobile Health Research," Computer Science and Information Engineering (CSIE), Chang Gung University, Taiwan
- 2022.03.08: "Readability Enhancement and Mobile Health," Computer Science, Metropolitan College, Boston University, U.S.
- 2021.04.25 & 05.09: "Mobile Systems - Engineering, Web and Health," Online Guest Lecture, Shandong University of Finance and Economics (SDUFE), Shandong, China
- 2020.05.28: "Web Development 101 for Medical Professionals - Front-end Part," Harvard Medical School/Beth Israel Deaconess Medical Center
- 2020.04.22: "Mobile Engineering, Web and Health Systems," Online Guest Lecture, Shandong University of Finance and Economics (SDUFE), Shandong, China
- 2019.10.03: "Using Machine Learning to Classify TCM Syndromes for Community Populations," Harvard Medical School/Beth Israel Deaconess Medical Center (Joint talk with Dr. Qingqing Liu and Haoyi Zhu)
- 2019.09.04: "Innovative Teaching and Research in Higher Education," China University of Petroleum, Shandong, China
- 2019.09.03: "Mobile Engineering and Health Systems," China University of Petroleum, Shandong, China
- 2019.07.18: "Introduction to Microcontroller Programming for Mobile Health," Harvard Medical School/Beth Israel Deaconess Medical Center
- 2019.05.24: "Introduction to Wentworth Institute of Technology," China University of Petroleum (UPC), Shandong, China
- 2019.05.23: "Building Mobile Engineering and Health Systems," Shandong University of Finance and Economics (SDUFE), Shandong, China
- 2019.05.03: "Building a Digital Platform for Mobile Health," The EITA New Media and New Digital Ventures Workshop, Taipei Economic and Cultural Office in New York, New York
- 2018.09.20-09.27: "Practical Data Science with Python" course (two 2-hour lectures), Harvard Medical School/Beth Israel Deaconess Medical Center
- 2018.02.01: "Mobile Technology and Research," Harvard Medical School/Beth Israel Deaconess Medical Center
- 2017.07.18-07.25: "Machine Learning with Python" course (two 2-hour lectures), Harvard Medical School/Beth Israel Deaconess Medical Center
- 2017.04.27-05.25: "Introduction to Python Programming" course (four 2-hour lectures), Harvard Medical School/Beth Israel Deaconess Medical Center

Deaconess Medical Center

- 2017.03.16: "Web Page Readability Enhancement and Mobile Health," Faculty Speaker Series, WIT
- 2016.10.25: "From Java Programming to Android Mobile App Development," Harvard Medical School/Beth Israel Deaconess Medical Center
- 2016.08.26: "Mobile Technologies for Applications," The EITA Smart Cities Forum 2016, MIT
- 2016.03.08: "Mobile History, Research and Education," Harvard Medical School/Beth Israel Deaconess Medical Center
- 2015.08.06: "Skim Reading and Mobile Learning: From Academic Research to Products," The 4<sup>th</sup> EITA Young Investigator Conference (EITA - YIC), MIT
- 2014.07.31: "From Web Page Enhancement to Mobile Reading and Learning," EITA New Media and Bio 2014, MIT
- 2013.08.02: "Web Page Enhancement on Desktop and Mobile Browsers," EITA-YIC 2013, MIT
- 2013.06.05: "Web Page Enhancement on Desktop and Mobile Browsers," CSAIL Ph.D. Symposium, MIT
- 2011.08.18: "Web Page Readability Enhancement," EITA-YIC 2011, Harvard University
- 2007.06.12: "How to use MIT OCW in teaching and learning," Center for Distance Education, TKU
- 2006.05.11: "The way to Mobile Internet," CSIE, TKU
- 2005.12.30: "Mobile Internet on Mobile Device," CSIE Seminar, NTU

## COMMERCIAL PRODUCTS

### Prentice Lab Software (<http://www.prentice-lab.com>)

2013 - Present

Prentice Lab designs algorithms and develops software to help people learn and use languages. Our first line of tools concentrates on key information extraction from text, such as skim reading support and summary creation. Our products include *Core* (a RESTful API service for key information extraction), *Antelope* (a Chrome extension for skim reading support) and *Gaur* (a RSS mobile reader with readability enhancement). We also provide technical training for organizations and universities. One of our customers is University IT Technology Training at Stanford University.

### PetPace Mobile Application (<http://www.petpace.com>)

2013 - 2014

PetPace designs hardware and software to revolutionize veterinary health care. The sensors, attached to a pet's collar, seamlessly and continuously monitor vital signs and activity patterns. I designed and implemented the first PetPace mobile application, which allows veterinarians and pet owners to monitor their pets. The first version of PetPace mobile application was released and published to Google Play in May 2014.

### Zappix Mobile Application (<http://www.zappix.com>)

2013 - 2014

Zappix mobile application provides visual menus to easily access customer service. Compared with traditional IVR (Interactive Voice Response) menus, Zappix mobile application saves customers' time to reach out to desired customer service. My contributions include new features design and implementation for Zappix mobile application, user experience improvement and user interface design for mobile and web systems.

### Mobile Phone Products

2000 - 2006

Dr. Yu led teams and developed software for cellphones. More than 12 handsets have been commercialized in the world. Following are selected products. A complete list is upon request.



NEC N110



Philips 568



Panasonic X300



Panasonic G70



Panasonic GD55



Siemens 8008



Giya SL500

## TEACHING EVALUATIONS

### Northeastern University

Following is Dr. Yu's teaching evaluations compared with the Department of Multidisciplinary Graduate Engineering (Department Mean) and the whole Northeastern University (University Mean). The full score is 5.0 for each cell.



## Year 2025

	Subject	Responses/Enrollment	TRACE Evaluation					
			Learning <sup>1</sup>			Teaching Effectiveness <sup>2</sup>		
			Yu	Department Mean	University Mean	Yu	Department Mean	University Mean
2025 Spring	CSYE6200 (04): Concepts of Object-Oriented Design	10/81 (12%)	4.3	4.5	4.4	4.9	4.6	4.5
	INFO6205 (14): Program Structure and Algorithms	11/99 (11%)	4.5	4.5	4.4	4.5	4.6	4.5
	<b>Semester Average</b>		4.4	4.5	4.4	4.7	4.6	4.5
	<b>Year Average</b>		4.4	4.5	4.4	4.7	4.6	4.5

## Year 2024

	Subject	Responses/Enrollment	TRACE Evaluation					
			Learning <sup>3</sup>			Teaching Effectiveness <sup>4</sup>		
			Yu	Department Mean	University Mean	Yu	Department Mean	University Mean
2024 Fall	CSYE6200 (04): Concepts of Object-Oriented Design	66/171 (38%)	4.7	4.5	4.4	4.9	4.6	4.5
	INFO6205 (14): Program Structure and Algorithms	14/47 (29%)	4.6	4.5	4.4	4.9	4.6	4.5
	<b>Semester Average</b>		4.7	4.5	4.4	4.9	4.6	4.5
2024 Summer	INFO5100: Application Engineering and Development (Coursera)	9/18 (50%)	4.8	4.3	4.4	4.8	4.3	4.4
	<b>Semester Average</b>		4.8	4.3	4.4	4.8	4.3	4.4
2024 Spring	CSYE6200 (04): Concepts of Object-Oriented Design	27/99 (27%)	4.7	4.5	4.4	4.9	4.5	4.5
	INFO6205 (14): Program Structure and Algorithms	32/98 (32%)	4.7	4.5	4.4	4.9	4.5	4.5
	<b>Semester Average</b>		4.7	4.5	4.4	4.9	4.5	4.5
	<b>Year Average</b>		4.7	4.4	4.4	4.9	4.4	4.4

## Year 2023

	Subject	Responses/Enrollment	TRACE Evaluation					
			Learning			Teaching Effectiveness		
			Yu	Department Mean	University Mean	Yu	Department Mean	University Mean
2023 Fall	CSYE6200 (04): Concepts of Object-Oriented Design	57/163 (34%)	4.8	4.4	4.4	4.9	4.5	4.5
	<b>Semester Average</b>		4.8	4.4	4.4	4.9	4.5	4.5
2023 Summer	CSYE6200 (04): Concepts of Object-Oriented Design	22/49 (45%)	4.8	4.5	4.3	4.8	4.5	4.3
	<b>Semester Average</b>		4.8	4.5	4.3	4.8	4.5	4.3
2023 Spring	CSYE6200 (04): Concepts of Object-Oriented Design	44/95 (46%)	4.7	4.4	4.4	4.9	4.5	4.5
	CSYE6200 (05): Concepts of Object- Oriented Design	45/99 (45%)	4.7	4.4	4.4	4.9	4.5	4.5
	<b>Semester Average</b>		4.8	4.4	4.3	4.9	4.5	4.5
	<b>Year Average</b>		4.8	4.4	4.4	4.9	4.5	4.5

## Year 2022

	Subject	Responses/Enrollment	TRACE Evaluation					
			Learning			Teaching Effectiveness		
			Yu	Department Mean	University Mean	Yu	Department Mean	University Mean
2022 Fall	CSYE6200 (04): Concepts of Object-Oriented Design	29/63 (46%)	4.8	4.4	4.3	4.9	4.4	4.4
	CSYE6200 (05): Concepts of Object- Oriented Design	38/75 (50%)	4.8	4.4	4.3	4.9	4.4	4.4
	<b>Semester Average</b>		4.8	4.4	4.3	4.9	4.4	4.4
	<b>Year Average</b>		4.8	4.4	4.4	4.9	4.4	4.4

## Wentworth Institute of Technology

Following is Dr. Yu's teaching evaluations compared with the Department of Computer Science and Networking (COM avg.), Division (Div. avg.) and the whole Institute (School Avg.). The full score is 5.0 for each cell.

Note that the evaluation system and questions have been changed since Summer 2020. There are no evaluation items specifically for the instructor.

## Year 2020

	Subject	Stimulated Thought				Knows Subject Matter				Communicated Subject Well			
		Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.
2020 Spring	COMP3660: Mobile App Development	4.6	4.0	4.0	4.0	4.8	4.3	4.3	4.3	4.6	3.7	3.7	3.7
	COMP4650 (01): Web Development	4.8	4.0	4.0	4.0	4.9	4.3	4.3	4.3	4.8	3.7	3.7	3.7
	COMP4650 (02): Web Development	4.9	4.0	4.0	4.0	5.0	4.3	4.3	4.3	4.8	3.7	3.7	3.7
	<b>Semester Average</b>	4.8	4.0	4.0	4.0	4.9	4.3	4.3	4.3	4.7	3.7	3.7	3.7

<sup>1</sup> TRACE Evaluation Question "I learned a lot in this course."

<sup>2</sup> TRACE Evaluation Question "What is your overall rating of this instructor's teaching effectiveness?"

<sup>3</sup> TRACE Evaluation Question "I learned a lot in this course."

<sup>4</sup> TRACE Evaluation Question "What is your overall rating of this instructor's teaching effectiveness?"

	Year Average	4.8	4.0	4.0	4.0	4.9	4.3	4.3	4.3	4.7	3.7	3.7	3.7
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### Year 2019

	Subject	Stimulated Thought				Knows Subject Matter				Communicated Subject Well			
		Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.
2019 Fall	COMP1000 (09/10): CS I (Java)	4.5	4.0	4.0	4.1	4.7	4.3	4.3	4.3	4.5	3.9	3.9	4.1
	COMP1000 (11/12): CS I (Java)	4.0	4.0	4.0	4.1	4.4	4.3	4.3	4.3	3.9	3.9	3.9	4.1
	COMP3800: Mobile Health	4.8	4.0	4.0	4.1	4.6	4.3	4.3	4.3	5.0	3.9	3.9	4.1
	Semester Average	4.4	4.0	4.0	4.1	4.6	4.3	4.3	4.3	4.5	3.9	3.9	4.1
2019 Summer	COMP3660 (01/02): Mobile App Dev.	4.8	4.0	4.0	4.0	4.8	4.2	4.2	4.3	5.0	3.9	3.9	3.9
	COMP3660 (03/04): Mobile App Dev.	5.0	4.0	4.0	4.0	5.0	4.2	4.2	4.3	5.0	3.9	3.9	3.9
	COMP2900/3800: Int. EPIC Project	4.8	4.0	4.0	4.0	4.8	4.2	4.2	4.3	4.8	3.9	3.9	3.9
	Semester Average	4.9	4.0	4.0	4.0	4.9	4.2	4.2	4.3	4.9	3.9	3.9	3.9
2019 Spring	COMP3660: Mobile App Development	4.8	4.0	4.0	4.1	4.9	4.2	4.2	4.3	4.7	3.9	3.9	4.1
	COMP4650 (01/02): Web Development	4.5	4.0	4.0	4.1	4.8	4.2	4.2	4.3	4.7	3.9	3.9	4.1
	COMP4650 (03/04): Web Development	5.0	4.0	4.0	4.1	5.0	4.2	4.2	4.3	4.9	3.9	3.9	4.1
	Semester Average	4.8	4.0	4.0	4.1	4.9	4.2	4.2	4.3	4.8	3.9	3.9	4.1
	Year Average	4.7	4.0	4.0	4.1	4.8	4.2	4.2	4.3	4.7	3.9	3.9	4.0

### Year 2018

	Subject	Stimulated Thought				Knows Subject Matter				Communicated Subject Well			
		Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.
2018 Fall	COMP1050 (01/02): CSII (Java)	4.4	4.0	4.0	4.1	4.7	4.2	4.2	4.3	N/A	N/A	N/A	N/A
	COMP1050 (03/04): CSII (Java)	4.2	4.0	4.0	4.1	4.5	4.2	4.2	4.3	N/A	N/A	N/A	N/A
	COMP3660: Mobile App Development	5.0	4.0	4.0	4.1	5.0	4.2	4.2	4.3	N/A	N/A	N/A	N/A
	COMP7800: EHealth Research	5.0	4.0	4.0	4.1	4.5	4.2	4.2	4.3	N/A	N/A	N/A	N/A
	Semester Average	4.7	4.0	4.0	4.1	4.7	4.2	4.2	4.3	N/A <sup>5</sup>	N/A	N/A	N/A
2018 Summer	COMP3660 (01/02): Mobile App Dev.	4.7	4.0	4.0	4.1	5.0	4.2	4.2	4.3	4.9	3.9	3.9	4.0
	COMP3660 (03/04): Mobile App Dev.	4.7	4.0	4.0	4.1	4.6	4.2	4.2	4.3	4.6	3.9	3.9	4.0
	COMP3800: Mobile Health (EPIC)	4.6	4.0	4.0	4.1	4.9	4.2	4.2	4.3	4.6	3.9	3.9	4.0
	COMP7200: Mobile App Development (CPCE Online Master Program)	4.6	4.0	4.0	4.1	5.0	4.2	4.2	4.3	N/A <sup>6</sup>	N/A	N/A	N/A
	Semester Average	4.7	4.0	4.0	4.1	4.9	4.2	4.2	4.3	4.7	3.9	3.9	4.0
2018 Spring	COMP3660: Mobile App Dev.	4.9	4.0	4.0	4.1	4.9	4.2	4.2	4.3	4.9	3.9	3.9	4.0
	COMP3670 (01/02): WWW App Dev.	4.6	4.0	4.0	4.1	4.6	4.2	4.2	4.3	4.6	3.9	3.9	4.0
	COMP3670 (03/04): WWW App Dev.	4.8	4.0	4.0	4.1	4.8	4.2	4.2	4.3	4.6	3.9	3.9	4.0
	Semester Average	4.8	4.0	4.0	4.1	4.8	4.2	4.2	4.3	4.7	3.9	3.9	4.0
	Year Average	4.7	4.0	4.0	4.1	4.8	4.3	4.3	4.3	4.7	3.9	3.9	4.0

### Year 2017

	Subject	Stimulated Thought				Knows Subject Matter				Communicated Subject Well			
		Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.
2017 Fall	COMP7200: Mobile App Development (CPCE Online Master Program)	5.0	4.0	4.3	4.1	5.0	4.4	4.5	4.3	5.0	4.1	4.3	4.1
	COMP1000 (01/02): CS I (Java)	4.8	4.0	4.0	4.1	4.8	4.3	4.3	4.4	4.3	3.9	3.9	4.1
	COMP1000 (03/04): CS I (Java)	4.9	4.0	4.0	4.1	5.0	4.3	4.3	4.4	4.8	3.9	3.9	4.1
	Semester Average	4.9	4.0	4.1	4.1	4.9	4.4	4.4	4.4	4.7	4.0	4.0	4.1
2017 Summer	COMP3670 (01/02): WWW App Dev.	4.1	4.0	4.0	4.1	4.6	4.3	4.3	4.3	4.2	3.9	3.9	4.1
	COMP3670 (01/02): WWW App Dev.	4.1	4.0	4.0	4.1	4.4	4.3	4.3	4.3	4.2	3.9	3.9	4.1
	COMP3800: Mobile App Dev.	4.3	4.0	4.0	4.1	4.7	4.3	4.3	4.3	4.7	3.9	3.9	4.1
	Semester Average	4.2	4.0	4.0	4.1	4.6	4.3	4.3	4.3	4.4	3.9	3.9	4.1
2017 Spring	COMP1050 (01/02): CS II (Java)	4.8	4.0	4.0	4.1	4.9	4.3	4.3	4.3	4.8	3.9	3.9	4.1
	COMP1050 (03/04): CS II (Java)	4.8	4.0	4.0	4.1	4.7	4.3	4.3	4.3	4.6	3.9	3.9	4.1
	COMP3800: Mobile App Dev.	4.4	4.0	4.0	4.1	4.7	4.3	4.3	4.3	4.6	3.9	3.9	4.1
	Semester Average	4.7	4.0	4.0	4.1	4.8	4.3	4.3	4.3	4.7	3.9	3.9	4.1
	Year Average	4.6	4.0	4.1	4.1	4.8	4.4	4.3	4.3	4.6	3.9	3.9	4.1

### Year 2016

	Subject	Stimulated Thought				Knows Subject Matter				Communicated Subject Well			
		Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.
2016 Fall	COMP1000 (05/06): CS I (Java)	4.9	4.0	4.0	4.1	5.0	4.3	4.3	4.3	4.7	3.9	3.9	4.0
	COMP1000 (07/08): CS I (Java)	4.4	4.0	4.0	4.1	4.6	4.3	4.3	4.3	4.4	3.9	3.9	4.0
	COMP3670 (01/02): WWW App Dev.	4.8	4.0	4.0	4.1	4.8	4.3	4.3	4.3	4.8	3.9	3.9	4.0
	Semester Average	4.7	4.0	4.0	4.1	4.8	4.3	4.3	4.3	4.6	3.9	3.9	4.0
2016 Summer	COMP3800 (03/04): Mobile App Dev.	4.7	4.0	4.0	4.1	4.8	4.3	4.3	4.3	4.8	3.9	3.9	4.0
	COMP3800 (07/08): Medical Device	4.7	4.0	4.0	4.1	4.7	4.3	4.3	4.3	4.8	3.9	3.9	4.0
	COMP3670 (01/02): WWW App Dev.	4.6	4.0	4.0	4.1	4.8	4.3	4.3	4.3	4.8	3.9	3.9	4.0

<sup>5</sup> There is no "Communicated Subject Well" evaluation item in 2018 Fall semester.

<sup>6</sup> There is no "Communicated Subject Well" evaluation item in CPCE in 2018 Summer semester.

	<b>Semester Average</b>	4.7	4.0	4.0	4.1	4.8	4.3	4.3	4.3	4.8	3.9	3.9	4.0
2016 Spring	COMP1050 (09/10): CS II (Java)	4.9	4.0	4.0	4.1	4.9	4.2	4.2	4.3	4.9	3.9	3.9	4.0
	COMP1050 (11/12): CS II (Java)	4.9	4.0	4.0	4.1	5.0	4.2	4.2	4.3	4.9	3.9	3.9	4.0
	COMP3800 (03/04): Mobile App Dev.	4.6	4.0	4.0	4.1	4.8	4.2	4.2	4.3	4.5	3.9	3.9	4.0
	<b>Semester Average</b>	4.8	4.0	4.0	4.1	4.9	4.2	4.2	4.3	4.8	3.9	3.9	4.0
	<b>Year Average</b>	4.7	4.0	4.0	4.1	4.8	4.3	4.3	4.3	4.7	3.9	3.9	4.0

## Year 2015

	Subject	Stimulated Thought				Knows Subject Matter				Communicated Subject Well			
		Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.
2015 Fall	COMP1070 (11/12): CS I (Java)	4.7	4.0	4.0	4.1	4.9	4.3	4.3	4.3	4.7	3.9	3.9	4.0
	COMP1070 (13/14): CS I (Java)	5.0	4.0	4.0	4.1	5.0	4.3	4.3	4.3	4.8	3.9	3.9	4.0
	COMP1071: CS II (C++)	5.0	4.0	4.0	4.1	5.0	4.3	4.3	4.3	4.8	3.9	3.9	4.0
	<b>Semester Average</b>	4.9	4.0	4.0	4.1	5.0	4.3	4.3	4.3	4.8	3.9	3.9	4.0
2015 Summer	COMP406: Mobile App Dev.	4.2	4.0	4.0	4.1	4.6	4.2	4.2	4.3	4.4	3.9	3.9	4.0
	COMP553 (01/02): WWW App Dev.	4.8	4.0	4.0	4.1	4.8	4.2	4.2	4.3	4.8	3.9	3.9	4.0
	COMP553 (03/04): WWW App Dev.	4.7	4.0	4.0	4.1	4.9	4.2	4.2	4.3	4.8	3.9	3.9	4.0
	<b>Semester Average</b>	4.6	4.0	4.0	4.1	4.8	4.2	4.2	4.3	4.7	3.9	3.9	4.0
2015 Spring	COMP310 (01/02): Data Structures	4.3	4.0	4.0	4.1	4.5	4.2	4.2	4.3	4.2	3.9	3.9	4.0
	COMP310 (03/04): Data Structures	4.5	4.0	4.0	4.1	4.6	4.2	4.2	4.3	4.4	3.9	3.9	4.0
	COMP685: Mobile App Dev.	4.2	4.0	4.0	4.1	4.6	4.2	4.2	4.3	4.4	3.9	3.9	4.0
	<b>Semester Average</b>	4.3	4.0	4.0	4.1	4.6	4.2	4.2	4.3	4.3	3.9	3.9	4.0
	<b>Year Average</b>	4.6	4.0	4.0	4.1	4.8	4.2	4.2	4.3	4.6	3.9	3.9	4.0

## Year 2014

	Subject	Stimulated Thought				Knows Subject Matter				Communicated Subject Well			
		Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.	Yu	COM Avg.	Div. Avg.	School Avg.
2014 Fall	COMP128: CSI (C++)	4.8	4.0	4.0	4.0	4.9	4.2	4.2	4.2	4.8	3.9	3.9	3.9
	COMP285 (05/06): OOP in Java	4.5	4.0	4.0	4.0	4.9	4.2	4.2	4.2	4.6	3.9	3.9	3.9
	COMP285 (11/12): OOP in Java	4.5	4.0	4.0	4.0	4.6	4.2	4.2	4.2	4.4	3.9	3.9	3.9
	<b>Semester Average</b>	4.6	4.0	4.0	4.0	4.8	4.2	4.2	4.2	4.6	3.9	3.9	3.9
	<b>Year Average</b>	4.6	4.0	4.0	4.0	4.8	4.2	4.2	4.2	4.6	3.9	3.9	3.9

## MEDIA PRESS

- Students Develop Workflow App for GE (<https://wit.edu/news/students-develop-workflow-app-ge>)
- Advised Student Team - Mojo Meter
  - Wentworth News: Agents of Invention (<https://wit.edu/news/agents-invention>)
  - The Call, Woonsocket R.I. on March 15, 2015 (Newspaper)
- Froggy GX was demonstrated at MIT-China Innovation and Entrepreneurship Forum (CHIEF) 2012
  - SinovisionNet 美國中文網 (<http://video.sinovision.net/?id=9197>)
  - WorldJournal 世界新聞網 (<http://tinyurl.com/cx2oemj>)
  - bostonese.com 波士頓華人雙語網 (<http://bostonese.com/?p=5214>)
  - The China Press Weekly 僑報週末波士頓版 (<http://tinyurl.com/cmtmcrb>)

## PROFESSIONAL SERVICES

- MIT Educational Council - Educational Counselor (Nov 2020 - Present)
- Conference Co-chair:
  - 2014 The EITA New Media and Bio (The EITA Conference on New Media and Biomedical Research), MIT
- Conference Organizer:
  - 2019 The EITA Conference on New Materials, Nanotechnology, Healthcare, New Energy and Sustainable Smart Manufacturing (EITA-New Materials 2019), National Chiao-Tung University (NCTU), Taiwan
  - 2019 The EITA New Media and New Digital Ventures Workshop, Taipei Economic and Cultural Office, New York
  - 2018 The EITA Conference on Knowledge and Smart Technology, MIT
  - 2017 The EITA Business & Management Workshop: Emerging Financial Services & Technology
  - 2016 The EITA Smart Cities Forum, MIT
  - 2013 EITA-YIC (The 3<sup>rd</sup> Annual EITA Young Investigator Conference), MIT
  - 2011 EITA-YIC (The 1<sup>st</sup> Annual EITA Young Investigator Conference), MIT
- Conference Planning Committee:
  - 2018 CISSE (The 22<sup>nd</sup> Colloquium for Information Systems Security Education Conference)
- Conference and Workshop Co-Chair
  - 2015 EITA-YIC (The 4<sup>th</sup> Annual EITA Young Investigator Conference) MIT
- Conference and Workshop Panel Discussion and Session Moderator
  - 2021 IEEE MIT Undergraduate Research Technology Conference (IEEE URTC)

- 2015 EITA-YIC (The 4<sup>th</sup> Annual EITA Young Investigator Conference) MIT
- Operations Chair
  - 2015 IEEE Healthcom (The 17<sup>th</sup> International Conference on E-health Networking, Application & Services)
- Program Committee:
  - 2025 ACM IUI (The 30<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
  - 2025 ACM SIGCSE TS (The 56<sup>th</sup> ACM Technical Symposium on Computer Science Education)
  - 2024 ACM SIGCSE TS (The 55<sup>th</sup> ACM Technical Symposium on Computer Science Education)
  - 2024 ACM IUI (The 29<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
  - 2023 ACM IUI (The 28<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
  - 2022 ACM ITiCSE (The 27<sup>th</sup> ACM Annual Conference on Innovation and Technology in Computer Science Education)
  - 2022 AAAI-22 UC (AAAI Undergraduate Consortium)
  - 2022 ACM IUI (The 27<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
  - 2021 ACM ITiCSE (The 26<sup>th</sup> ACM Annual Conference on Innovation and Technology in Computer Science Education)
  - 2021 ACM IUI (The 26<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
  - 2021 AAAI-21 UC (AAAI Undergraduate Consortium)
  - 2020 ACM ITiCSE (The 25<sup>th</sup> ACM Annual Conference on Innovation and Technology in Computer Science Education)
  - 2020 ACM IUI (The 25<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
  - 2020 ACM SIGCSE (The 51<sup>st</sup> ACM Technical Symposium on Computer Science Education) - Paper - Experience Reports and Tools, Posters
  - 2019 ACM ITiCSE (The 24<sup>th</sup> ACM Annual Conference on Innovation and Technology in Computer Science Education)
  - 2019 ACM SIGCSE (The 50<sup>th</sup> ACM Technical Symposium on Computer Science Education)
  - 2019 The EITA – New Media and New Digital Ventures Workshop
  - 2019 ACM IUI (The 24<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
  - 2018 ACM ITiCSE (The 23<sup>rd</sup> ACM Annual Conference on Innovation and Technology in Computer Science Education)
  - 2018 ACM SIGCSE (The 49<sup>th</sup> ACM Technical Symposium on Computer Science Education)
  - 2017 ACM ITiCSE (The 22<sup>nd</sup> ACM Annual Conference on Innovation and Technology in Computer Science Education)
  - 2017 ACM SIGCSE (The 48<sup>th</sup> ACM Technical Symposium on Computer Science Education)
  - 2016 The EITA Smart Cities Forum, MIT
  - 2013 IEEE EUC (The 11<sup>th</sup> IEEE/IFIP International Conference on Embedded and Ubiquitous Computing)
  - 2012 IEEE EUC (The 10<sup>th</sup> IEEE/IFIP International Conference on Embedded and Ubiquitous Computing)
- Technical Program Committee:
  - 2025 IEEE Healthcom (IEEE International Conference on E-health Networking, Application & Services)
  - 2024 IEEE Healthcom (IEEE International Conference on E-health Networking, Application & Services)
  - 2022 IEEE Healthcom (IEEE International Conference on E-health Networking, Application & Services)
  - 2022 IEEE CCWC (The 12<sup>th</sup> Annual Computing and Communication Workshop and Conference)
  - 2021 IEEE CCWC (The 11<sup>th</sup> Annual Computing and Communication Workshop and Conference)
- Journal Paper Reviewer:
  - 2024/09 Journal of Clinical Sleep Medicine
  - 2024/05 Artificial Intelligence in Medicine
  - 2023/10 IEEE JBHI (Journal of Biomedical and Health Informatics)
  - 2023/09 Engineered Science
  - 2022/07 ACM TiiS (Transaction on Interactive Intelligent Systems) for the Highlights of IUI 2022 issue
  - 2021/09 ACM TiiS (Transaction on Interactive Intelligent Systems) special issue on highlights of IUI'21
  - 2020/10 ACM TOCHI (Transactions on Computer-Human Interaction)
  - 2020/03 ACM TOCHI (Transactions on Computer-Human Interaction)
  - 2019/10 ACM TOCHI (Transactions on Computer-Human Interaction)
  - 2015 IEEE TAFFC (Transactions on Affective Computing)
  - 2015 IJSTS (International Journal of Science, Technology and Society)
- Conference Paper Reviewer:
  - 2025 ACM IUI (The 30<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
  - 2025 ACM SIGCSE TS (The 56<sup>th</sup> ACM Technical Symposium on Computer Science Education)
  - 2024 IEEE Healthcom (IEEE International Conference on E-health Networking, Application & Services)
  - 2024 ACM SIGCSE TS (The 55<sup>th</sup> ACM Technical Symposium on Computer Science Education)
  - 2024 ACM IUI (The 29<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
  - 2023 ACM IUI (The 28<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
  - 2022 ACM ITiCSE (The 27<sup>th</sup> ACM Annual Conference on Innovation and Technology in Computer Science Education)
  - 2022 IEEE CCWC (The 12<sup>th</sup> Annual Computing and Communication Workshop and Conference)
  - 2022 AAAI-22 UC (AAAI Undergraduate Consortium)
  - 2022 ACM IUI (The 27<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
  - 2021 IEEE CCWC (The 11<sup>th</sup> Annual Computing and Communication Workshop and Conference)
  - 2021 ACM ITiCSE (The 26<sup>th</sup> ACM Annual Conference on Innovation and Technology in Computer Science Education)

- 2021 ACM IUI (The 26<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
- 2021 AAAI-21 UC (AAAI Undergraduate Consortium)
- 2020 NordiCHI (The 11<sup>th</sup> Nordic Conference on Human-Computer Interaction)
- 2020 HSI (The 13<sup>th</sup> International Conference on Human System Interaction)
- 2020 ACM ITiCSE (The 25<sup>th</sup> ACM Annual Conference on Innovation and Technology in Computer Science Education)
- 2020 ACM CHI (The ACM CHI Conference on Human Factors in Computing Systems)
- 2020 ACM IUI (The 25<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
- 2020 ACM SIGCSE (The 51<sup>st</sup> ACM Technical Symposium on Computer Science Education)
- 2019 ACM ITiCSE (The 24<sup>th</sup> ACM Annual Conference on Innovation and Technology in Computer Science Education)
- 2019 ACM SIGCSE (The 50<sup>th</sup> ACM Technical Symposium on Computer Science Education)
- 2019 ACM CHI (The ACM CHI Conference on Human Factors in Computing Systems)
- 2019 ACM IUI (The 24<sup>th</sup> ACM Annual International Conference on Intelligent User Interfaces)
- 2018 IEEE ISI (IEEE International Conference on Intelligence and Security Informatics)
- 2018 NordiCHI (The 10<sup>th</sup> Nordic Conference on Human-Computer Interaction)
- 2018 WASA (The 13<sup>th</sup> International Conference on Wireless Algorithms, Systems, and Applications)
- 2018 ACM ITiCSE (The 23<sup>rd</sup> ACM Annual Conference on Innovation and Technology in Computer Science Education)
- 2018 ACM DIS (The ACM Designing Interactive Systems)
- 2018 ACM SIGCSE (The ACM Technical Symposium on Computer Science Education)
- 2018 ACM AutomotiveUI (The 10<sup>th</sup> International Conference on Automotive User Interfaces and Interactive Vehicular Applications)
- 2017 OzCHI (The 29<sup>th</sup> Annual Conference of the Australian Computer-Human Interaction Special Interest Group (CHISIG))
- 2017 ACM AutomotiveUI (The 9<sup>th</sup> International Conference on Automotive User Interfaces and Interactive Vehicular Applications)
- 2017 ACM CHI Play (The ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play)
- 2017 IEEE ISI (IEEE International Conference on Intelligence and Security Informatics)
- 2017 ACM ITiCSE (The ACM Annual Conference on Innovation and Technology in Computer Science Education)
- 2017 ACM SIGCSE (The ACM Technical Symposium on Computer Science Education)
- 2016 IEEE ISI (IEEE International Conference on Intelligence and Security Informatics)
- 2016 ACM MobileHCI (The 18<sup>th</sup> International Conference on Human-Computer Interaction with Mobile Devices and Services)
- 2016 MODELSWARD (The 5<sup>th</sup> International Conference on Model-Driven Engineering and Software Development)
- 2016 ACM CHI Play (The ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play)
- 2016 ACM CHI (The ACM CHI Conference on Human Factors in Computing Systems)
- 2015 ACM CHI (The ACM CHI Conference on Human Factors in Computing Systems)
- 2015 ACM UIST (ACM User Interface Software and Technology Symposium)
- 2013 IEEE IFIP (IEEE/IFIP International Conference on Embedded and Ubiquitous Computing)
- 2013 ACM CHI (The ACM CHI Conference on Human Factors in Computing Systems)
- 2012 ACM CHI (The ACM CHI Conference on Human Factors in Computing Systems)
- 2012 ACM UIST (ACM User Interface Software and Technology Symposium)
- 2012 IEEE IFIP (IEEE/IFIP International Conference on Embedded and Ubiquitous Computing)
- 2010 ACM CHI (The ACM CHI Conference on Human Factors in Computing Systems)
- 2009 ACM UIST (ACM User Interface Software and Technology Symposium)
- External Reviewer for Scholarly Work for Promotion:
  - 2021.08 Department of Computing Sciences, University of Hartford
- New Book Proposal Reviewer:
  - 2021 Chapman & Hall / CRC Press, Taylor and Francis Group
  - 2021 Elsevier
  - 2019 Chapman & Hall / CRC Press, Taylor and Francis Group
- Student Volunteer:
  - 2011 ACM CHI (The ACM CHI Conference on Human Factors in Computing Systems)
  - 2010 ACM CHI (The ACM CHI Conference on Human Factors in Computing Systems)

## **INTERNATIONAL COLLABORATIONS**

- National Taiwan University (NTU), Taipei, Taiwan (08/2023 – Present)
  - Office of International Affairs (NTU - OIA) - Support Dialogue of Civilizations (DOC) program from Northeastern University
- Shangdong University of Finance and Economics (SDUFE), Jinan, Shangdong, China (01/2021 - 08/2023)
  - Co-mentor students' research in Human-Computer Interaction (HCI) field
- Southern University of Science and Technology (SUSTech), Shenzhen, Guangdong, China (02/2019 - 09/2022)
  - Initiate collaborations with Shude College, SUSTech
  - Offer a new EPIC course (COMP 3800: International EPIC Project) for SUSTech students in Summer 2019
- China University of Petroleum (UPC), Qingdao, Shangdong, China (09/2019 - 08/2022)
  - Setup collaborations for faculties and students
- Korea Wales International Christian School (Wales Academy), Gwangju, Gyeonggi, South Korea (05/2018 - Present)
  - Provide one-day workshop to inspire visiting students from Wales Academy (06/2019)

- Introduce higher education in the U.S. and research projects to students at Wales Academy (12/2018)
- The Polytechnic University of Milan (Politecnico di Milano), Milan, Italy (01/2018 - Present)
  - Research collaboration in E-Health domain with NECSTLab
  - Advise three visiting scholars (graduate students) for E-Health research project (Fall 2018)
- Shangdong University of Finance and Economics (SDUFE), Jinan, Shangdong, China (05/2016 - 08/2022)
  - Co-mentor students' Mobile App Development projects executed at SDUFE

## **INSTITUTIONAL SERVICES**

### **[Northeastern University]**

- The Senate - Global Education Committee (GEC) (09/2024 - 04/2025)
- The Senate - Global Education Committee (GEC) (09/2023 - 04/2024)
- College of Engineering (COE) Faculty Council (09/2022 - 09/2024)
- College of Engineering (COE) Faculty Council - Secretary (09/2022 - 09/2024)
- Thesis Committee at MGEN (07/2023 - 08/2023)
  - Committee members: Prof. Dino Konstantopoulos, Prof. Robin Hillyard
- 2022 Merit Review Committee, Multidisciplinary Graduate Engineering (MGEN), College of Engineering (03/2023)

### **[Wentworth Institute of Technology]**

- Senator, elected to represent all faculty in the Department of Computer Science and Networking (09/2020 - 08/2022)
- Global Engagement Initiative (04/2019 - 08/22)
- Institute Academic Advising Committee - Technology Subcommittee (09/2017 - 08/2022)
- Institute Academic Advising Committee (10/2016 - 08/2022)
- Institute GEO Committee (09/2016 - 08/2022)
- Master of Science in Applied Computer Science (MSACS) Curriculum Committee (06/2019 - 08/2022)
- Computer Science (BCOS) Curriculum Committee (09/2014 - 08/2022)
- Computer Networking (BSCN) Curriculum Committee (09/2014 - 08/2022)
- Faculty Ambassador and Mentor (09/2014 - 08/2022)
- Advisor of Mobile Application Development and Design (MADD) club (01/2015 - 08/2022)
- Search Committee for Director of EPIC (experiential) Learning (08/2018)
- Study Abroad Committee (10/2017)
- Chair, Computer Science (BCOS) Curriculum Committee (01/2016 - 08/2021)
- Institute Outreach Program
  - Computer Science Exploratory Day for high school students (2020/03/04)
    - Designed and taught a half-day CS workshop for high school students from Boston Public Schools.
    - 38 students + 4 teachers joined the workshop
    - Topics: A.I. Experience for All (hands-on activity and programming)
  - Computer Science workshop for middle and high school students (06/27/2019)
    - Led a CS workshop for middle/high school students from Korea Wales International Christian School (KWICS)
    - 11 students + 2 teachers joined the workshop
    - Topics: Problem Solving in Computer Science (hands-on activity and online programming)
  - Computer Science workshop for high school students (03/29/2019)
    - Led one day CS workshop for high school students from Dearborn STEM Academy
    - 28 sophomore students + 3 teachers joined the workshop
    - Topics: Introduction to CS, hands-on to build robots, program robots
  - STEM K-12 Education (03/22/2019)
    - Co-designed a hands-on CS workshop for local Latina high school students
    - 20 middle school students + 10 mentors joined the workshop
    - Topics: Assemble and program robots
  - Kids2College Program (06/12/2018)
    - Designed a hands-on CS workshop for the 5<sup>th</sup> grade students
    - 37 students (all 5<sup>th</sup> grade) are from Mildred Avenue K-8 School in Mattapan
  - Sociedad Latina STEM Program (03/17/2018)
    - Designed one-day CS workshop for local Latina high school students
    - Lead workshop for students (11 high school students and 9 college mentor students)
  - RAMP - A Six-Week Summer Bridge Program for High School Students (07/2016 - 08/2016)
    - 30 students work on 7 different community related projects
    - Met with all students weekly to provide advices to the projects
- Course Coordinator
  - COMP1000: Computer Science I in Java (Spring '19)
  - COMP1050: Computer Science II in Java (Spring '19)
  - COMP3660: Mobile App Development (Spring '19)



- COMP4650: Web Development (Spring '19)
- COMP1000: Computer Science I in Java (Fall '17)
- COMP1050: Computer Science II in Java (Spring '17)
- COMP1050: Computer Science II in Java (Spring '16)
- COMP1071: Computer Science II in C++ (Fall '15)
- COMP2070: Object-Oriented Programming in Java (Fall '15)
- Student Award Selection Committee - Wentworth Bowl and Unsung Hero Awards (2018, 2019, 2020, 2021)
- Institute Registrar Search Committee (09/2016 - 11/2016)
- Advisor of Game Development club (09/2016 - 03/2017)
- Faculty Search Committee (10/2015 - 07/2016)
- Advising Pilot Committee (09/2014 - 09/2016)
- Course Development Committee - COMP1070: Computer Science I in Java (05/2015 - 12/2015)
- Master of Science in Applied Computer Science (MSACS) Curriculum Committee (11/2014 - 12/2017)

## OTHER SERVICES

- Judge, 49<sup>th</sup> Harvard National Forensics Tournament (2023/02/18 – 2023/02/20)
- Judge, Christmas Chlassic at Not Regis open to non NYCFL schools (2021/12/18)
- Judge, The Averill Invitation Online, National Speech and Debate Association (NSDA) Campus, MA/US (2021/11/30)

## AWARDS & HONORS

- 2024.03&11: 2025 Dialogue of Civilizations (DOC) Program - Phase 1 and 2 Approval, Northeastern University
- 2023.06: Full-Time Faculty Professional Development Fund (FFPDF) Award, Northeastern University (\$2,000)
- 2023.05: Global Experience Office Faculty Fellows (GEOFF) for the 2023-2024 Dialogue of Civilizations, Northeastern University (\$5,000)
- 2023.05&12: 2024 Dialogue of Civilizations (DOC) Program - Phase 1 and 2 Approval, Northeastern University
- Evaluated superior in faculty evaluation (all categories) for five consecutive years (2016, 2017, 2018, 2019, 2020) at Wentworth Institute of Technology
- Nominated for The President's Award for 3 times (2017, 2018, 2019) at Wentworth Institute of Technology
- 2022.03: Spring 2022 Faculty Grants, WIT (\$2,500)  
Project Title: Physiological Signal Collection and Analysis for Mobile Health
- 2022.03: Spring 2022 Faculty Grants, WIT (\$2,500)  
Project Title: A Novel Mobile App Connected Walking Aid Device for The Blind
- 2021.05: Faculty Spotlights at Asian American Pacific Islander (AAPI) Heritage Month, WIT.  
(<https://wit.edu/about/diversity/aapi-spotlights>)
- 2021.01: IEEE 11th Annual Computing and Communication Workshop and Conference (IEEE CCWC 2021) - Best Paper Award
- 2020.09: Elected as a Senator to represent the Department of Computer Science and Networking, WIT
- 2020.02: Spring 2020 Presidential EPIC Mini Grants Award, WIT (\$5,000)  
Project Title: A Low-cost Mobile App-Controlled Prosthetic Knee Device
- 2019.05: Nominated for The President's Award for Distinguished Scholarship, WIT
- 2019.02: Spring 2019 Presidential EPIC Mini Grants Award, WIT (\$4,990)  
Project Title: A Wearable Device for Continuous Monitoring UV Exposure and Dehydration Level
- 2019.02: Spring 2019 Presidential EPIC Mini Grants Award, WIT (\$5,000)  
Project Title: Mobile Smart Device for Architectural Fieldwork
- 2018-19 CECS (College of Engineering and Computer Science) Grant for International EPIC Collaborations (\$10,000)
- 2018.12: 2018 KWICS (Korea Wales International Christian School) Grant for Outstanding Scholar Visit (\$2,500)
- 2018.11: 2018 SDUFE (Shandong University of Finance and Economics) MOOC Grant for Online Teaching (\$14,385)
- 2018.04: Nominated for The President's Award for Distinguished Teaching/The Grant Johnson Award, WIT
- 2017.12: 2017 Blittersdorf Faculty Award, WIT (\$1,000)
- 2017.11: Fall 2017 Presidential EPIC Mini Grants Award, WIT (\$5,000)  
Project Title: EPIC Teaching - Mobile Health System & Homecare Medical Device-Design, Implementation, and Analysis
- 2017.10: 2017 ACM Symposium on User Interface Software and Technology (ACM UIST '17) - Best Poster Award
- 2017.04: Nominated for The President's Award for Distinguished Teaching/The Grant Johnson Award, WIT
- 2016.11: Fall 2016 Presidential EPIC Mini Grants Award, WIT (\$5,000 + two course releases funded by EPIC Office)  
Project Title: Mobile Health System and Homecare Medical Device
- 2015.11: 2015 Sagan Faculty Fund Grants Award, WIT (\$19,280)  
Project Title: Smart Adaptive Boot for Ankle Instability Treatment
- 2015.10: Fall 2015 Presidential EPIC Mini Grants Award, WIT (\$5,000)  
Project Title: Medical Device and Software Design for Mobile Health
- 2012.05: Finalist in Student Research Competition (SRC) at ACM CHI
- 2012.03: MIT 2012 iCampus Prize First Round Winner - Judge's Choice Winner
- 2012.02: 3<sup>rd</sup> Place in MIT's First Mobile App Development Competition
- 2011.01: Semi-finalist in MIT's \$100K Executive Summary Competition (ESC)

- 2003.11: Outstanding Military Servant at Quanta Computer Inc.
- 2000.12: Finalist in Thesis Competition, Inalways Foundation
- 2000.08: Lecture Design Competition Award of National Science Council
- 2000.06: The honorable member of the Phi Tau Phi Scholastic Honor Society, National Taiwan University (NTU).
- 1998.12: Undergraduate Dragon Thesis Award of Acer Foundation
- 1994-98: Honored with Da-Yu Award of Tamkang University for six times. The Da-Yu Award is given to students ranking within top 5% of the class each semester.
- 1998.06: Graduated with honors from Computer Science and Information Engineering (CSIE) department, Tamkang University (GPA ranks 1<sup>st</sup> out of 126 students)
- 1998.06: The honorable member of the Phi Tau Phi Scholastic Honor Society, Tamkang University (TKU).
- 1998.03: Outstanding College Youth Award, China Youth Corps, R.O.C.
- 1996.11: The Chiu Hai-Chui scholarship

#### **CERTIFICATES**

- 2010.10: MIT's Graduate Student Teaching Certificate Program
- 1998.06: TKU's Secondary Teacher Education Program in Computer Science

#### **MEMBERSHIPS**

- IEEE (Institute of Electrical and Electronics Engineers) - Senior Member
- ACM (Association for Computing Machinery) - Member
- National Academy of Inventors (NAI) - Northeastern University Chapter - Member

#### **SCHOLARSHIPS**

- 2000.05: Ho Shih-Hsien memorial scholarship
- 1997.12: Plastico (BVI) Corp. Chou Chiu-Huo scholarship
- 1997.12: The judicial person Tsung Cho-Chang educational scholarship
- 1997.06: Banchiau Rotary Club educational scholarship

#### **LEADERSHIP**

- 2022.08 - Present: Director, Mobile and Web Engineering Lab (MWE), Northeastern University
- 2013.06 - Present: Founder and CEO, Prentice Lab LLC
- 2014.10 - 2022.08: Director, Human-Computer Interaction (HCI) Lab, WIT
- 2014.10 - 2022.08: Advisor, Mobile Application Development and Design (MADD) club, WIT
- 2016.09 - 2017.03: Advisor, Game Development Club, WIT
- 2013 - 2014: Director of Mobile Engineering and User Experience, Zappix and PetPace (2 different companies)
- 2012.01: Team Lead of Nom Nom Now mobile app (The 3<sup>rd</sup> Place of MIT's Mobile App Development Competition)
- 2008 - 2010: MIT Westgate Partners Community Coordinator
  - Organized Westgate Orientation Events (>250 attendants)
  - Initialized MIT campus-wide Family Tea Time
  - Initialized MIT Westgate-Tang Hall outdoor music festival
  - Supported Couples and Partners in Westgate Community
- 2000 - 2006: Software Team Lead and Associate Technical Manager at Quanta Computer
- 1996 - 1997: President of NOCE Student Associate at Tamkang University

#### **SKILLS**

- Programming Languages: Java, C, C++, JavaScript, HTML, CSS, PHP, Python, Perl, MATLAB
- Programming Domains: Web Programming, Mobile App Programming, Real-Time Embedded Systems, Microcontrollers for Mobile Health
- Others: Technical Management of Products, Team Coordination and Management