

Shih-Chuan Chiu 邱士銓



Web developer, OP Design Studio

steve.scchiu@gmail.com | <http://people.cs.nctu.edu.tw/~scchiu/> | +886-911642005

CAREER SUMMARY

- Ph.D. in Computer Science; Engineer specialized in data mining and computer music technologies
- Practical work experience in web design: HTML, JavaScript, PHP, mySql
- 12+ years experiences in software programming: C, C++, Java, PHP, etc.
- Quick in understanding technologies and trends, and greatly motivated to strengthen development skills.

OBJECTIVE

Obtain a job at a company that will utilize my strong dedication to data mining, multimedia research area and web design technology.

SKILLS



EDUCATION

- May 2011 **National Chiao Tung University**
Ph.D., Department of Computer Science
Dissertation: Automatic Music Arrangement by Score Reduction
Advisor: Prof. Jiun-Long Huang and Man-Kwan Shan
- Jul. 2006 **National Chengchi University**
M.S., Department of Computer Science
Thesis: Computer Music Composition Based on Discovered Musical Patterns
Advisor: Prof. Man-Kwan Shan
- Jun. 2004 **Tamkang University**
B.S., Department of Computer Science and Information Engineering

WORK EXPERIENCE

- Present **OP Design Studio (奧普設計) Taipei**
Mar. 2014 **Web Developer**
 - Web design: framework design, web page readability, UX, etc.
 - Design and develop CMS, focusing on Wordpress theme/plugin development
 - SEO, advertisements for Web sites
 - DEMO: [Daily Bakery](#), [Taipei Smile Dental](#), [MW Dental Group](#)
- Jul. 2015 **Fortune Institute of Technology Kaohsiung**
Mar. 2015 **Assistant Professor**
 - Course teaching: Interactive type Homepage Manufacture, Computer Application, Introduction to Linux, Computer-aided Image Design, Introduction to Digital Content.
 - Project writing: 產業學院計畫-動漫設計學分學程, 實務增能, 雲嘉南策略聯盟計畫書
 - 行政/招生: IET認證, 改科大訪視, 改科大計畫書, 招生博覽會, 入班宣導
- Oct. 2015 **Soho Music Center Taipei**
Jul. 2011 **Director**
 - ERP system design: use Google API (Gmail, calendar, document, Spreadsheet, form, site, etc.), and write Google script to develop several tools for purchase/sales/warehouse, tutor salary report, and monthly financial report.
 - Recruit music instrument teachers
 - General affair: customer service (guitar repair/product sale), student course arrangement, tax stuffs, and employee

training, etc.

Jan. 2015

Dec. 2011

Research Center for IT Innovation (CITI), Academic Sinica Taipei

Postdoctoral Fellow

- Research in computer music: difficulty level recognition of piano sheet music, ukulele arranging with consideration of difficulty, repeating patterns analysis in music
- Research in data mining: high utility inter-transaction itemset mining, incremental approach for high utility inter-transaction itemset mining
- Paper review: Journal of Information Science (JIS); KDD 2014, SDM 2014, KDD 2012, ICDM 2012 (from Prof. Chen)
- Project and product review: since my PI, Prof. Chen, is active in various areas, one of my work is to help him to review the science projects (國科會計畫, 資策會計畫, 法務部科技計畫, 國網中心計畫, etc.) and technological products (資訊月金質獎與百大產品)

OTHER EXPERIENCE

5 Semesters

National Chiao Tung University Hsinchu

Teaching Assistant Pre-PhD Teaching Assistant

- Multimedia system, data mining and recommendation, data mining, data structure, mobile computing

Feb. 2011

Aug. 2008

Fan Digital Music Center Hsinchu

Digital Music Teacher

- Teaching digital music software (Nuendo, Reason, etc.) to compose music

6 months

Angel Light Music Therapy Album

Record Producer

- It is a music therapy album conducted by a music therapist, Yi-Chen Hsu. I take in charge of audio recording, audio recording, audio editing, post production, mixing, and mastering, technical support.

RESEARCH INTERESTS

Data mining

Computer music

Algorithmic composition

Mobile computing

PUBLICATIONS

1. Shih-Chuan Chiu and Ming-Syan Chen, "A Study on Difficulty Level Recognition of Piano Sheet Music," *IEEE International Symposium on Multimedia (ISM)*, December 10 - December 12, 2012, Irvine, USA.
2. Shih-Chuan Chiu, Jiun-Long Huang, and Jen-He Huang, "On processing continuous frequent K-N-match queries for dynamic data over networked data sources," *Knowledge and Information Systems (KAIS)*, Vol. 31, No. 3, 547-579, 2012.
3. Jiun-Long Huang, Shih-Chuan Chiu, and Man-Kwan Shan, "Towards an Automatic Music Arrangement Framework Using Score Reduction," *ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)*, Vol. 8, No. 1, January 2012. (Experiment survey) (Results of Turing-test)
4. Shih-Chuan Chiu, Hua-Fu Li, Jiun-Long Huang, and Hsin-Han You, "Incremental Mining of Closed Inter-Transaction Itemsets over Data Stream Sliding Windows," *Journal of Information Science (JIS)*, Vol. 37, No. 2, 208-220, April 2011. (SSCI journal and SCI journal)
5. Shih-Chuan Chiu, Man-Kwan Shan and Jiun-Long Huang, "Automatic System for the Arrangement of Piano Reductions," *AdMIRE: International Workshop on Advances in Music Information Research 2009 (in conjunction with IEEE International Symposium on Multimedia 2009)*, 459-464, December 14 - December 16, 2009, San Diego, USA.
6. Man-Kwan Shan and Shih-Chuan Chiu, "Algorithmic Compositions Based on Discovered Musical Patterns," *Multimedia Tools and Applications*, Vol. 46, No. 1, 1380-7501, January 2010.
7. Shih-Chuan Chiu, Man-Kwan Shan, Jiun-Long Huang and Hua-Fu Li, "Mining Polyphonic Repeating Patterns from Music Data Using Bit-String Based Approach," *IEEE International Conference on Multimedia & Expo (ICME 2009)*, 1170-1173, June 28 - July 3, 2009, Cancun, Mexico New York, USA.
8. Shin-Yi Chiu, Shih-Chuan Chiu and Jiun-Long Huang, "On Mining Repeating Pattern with Gap Constraint," *International Symposium on Advances of High Performance Computing and Networking (AHPCN-09)*, 557-562, June 25 - June 27, 2009, Seoul, Korea.
9. Jiun-Long Huang, Shih-Chuan Chiu and Xin-Mao Huang, "GPE: A Grid-based Population Estimation Algorithm for Resource Inventory Applications over Sensor Networks," *Journal of Information Science and Engineering*, Vol. 25, No. 1, 210-218, January 2009.
10. Shih-Chuan Chiu and Man-Kwan Shan, "Computer Music Composition Based on Discovered Music Patterns," *IEEE International Conference on System, Man, and Cybernetics (SMC'06)*, 4401-4406, October 8 - October 11, 2006, Taipei, Taiwan. (EI)