

CMU Faculty Profile

CHOW-FENG CHIANG

Director, Center for Risk Analysis
Professor, Department of Health Risk Management, College of Public Health

Ph.D., Iowa State University (USA), 1988

Phone: (886)-4-22053366 ext. 6123

Email: amur.chiang@gmail.com

URL: http://webap.cmu.edu.tw/TchEportfolio/index_3/cfchiang



Research Interests: Food safety risk assessment (FSRA), Environmental HRA decision support system, Medical wastes disposal and infectious control, Auto-thermal thermophilic aerobic treatment (ATAT), Aerobic and anaerobic respirometric monitoring.

Academic Distinctions:

Iowa State University, Research Excellent Award, 1988

Taichung County Pollution Prevention Association, Award of the Year, 1997

Chaoyang Univ. of Tech., Res. Excellent Award, 97-01; Best Teacher of the Year, 2001

The 4th Int. Sym. on Advanced Environmental Monitoring 2002, Session Chair

US Standard Methods Com., Dilution method for BOD5, Reviewer, 2003~2005

Society of Environmental Toxicity and Chemistry (SETAC/AP), International Joint Conference on Risk Assessment and Management, Session Chair, 2004

China Med. Univ., Best Student Mentor of the Year; Learning for Excellence, 2004

Appointments:

1988-1989: Post doctor, Univ. of Arkansas, USPEA screening of pp list under Clean Water Act

2006/07-12: Visiting Scholar, National Center for Environmental Assessment (NCEA)

2004-2007: Chair, Dept. of Health Risk Management, CMU.

2007-2009: Dean, Academic Affairs, CMU.

2007-Present: Director, CMU Center for Risk Analysis (CCRA).

2011-Present: PI, Total Diet Study, Food and Drug Administration.

Research Interests:

I started my career in the field of environmental microbiology, medical wastes disposal, and infectious control. In the past decade, I started to focus on environmental and dietary health risk assessment, major in developing decision supporting system (DSS) in environmental risk management and Taiwan dietary exposure evaluation model (TDEEM).

Representative Publications:

Sampling design by Core Food approach for Taiwan total diet study on veterinary drugs. Chen CC, Tsai CL, Chang CC, Ni SP, Chen YT, **Chiang CF***. **Food Add. Contam.** 2017. Accepted.

[Screening procedure for airborne pollutants emitted from a high-tech industrial complex in Taiwan.](#) Wang JHC, Tsai CT, **Chiang CF***. **Chemosphere.** 2015; 139:268-275.

[Chinese Cooking with ionic seasonings may enhance migration of perfluorooctanic acid from food contact articles.](#) **Chiang CF***, Hsieh DPH, Hsu HC, Chang CC, Ling MP, Huang LL, Chen PW and Chiang KH. **J Food Drug Analysis.** 2012; 20(4):814-821.

[Analyzing the design criteria of primary settlers for small sewage treatment systems: A national survey in Taiwan.](#) **Chiang CF**, Tsai CT, Pai TY, Lo HM, Chao KP. **Journal of hazardous materials.** 2010; 175: 915-919.

[Size distribution of and dry deposition of road dust PAHs.](#) Yang HH, **Chiang CF**, Lee WJ. **Environment International.** 1999; 25(5) 585-597.

CMU Faculty Profile

CHIANG HUNG-LUNG

Professor, Department of Health Risk Assessment

Ph.D., China Medical University (Taiwan)

Phone: (886)-4-22079685

Fax: (886)-4-22079687

Email: hlchiang@mail.cmu.edu.tw

URL: http://webap.cmu.edu.tw/TchEportfolio/index_1/hlchiang



Research Interests: Air Quality Management, Pollution Control, Solid Waste Disposal and Environmental Risk Assessment

Academic Distinctions:

Researchgrants -

2013-2016 Development and Application of Carbonization and Pyrolysis for the Reuse of Organic Sludge

2016-2018 Pollution characteristics of the pyrolysis and recycle waste printed circuit boards

Appointments:

2005-2006: Associate Professor, Dept. Health Risk Assessment, China Medical University, Taichung, Taiwan

2007-2013: Professor and Chairman Dept. Health Risk Assessment, China Medical University, Taichung, Taiwan

2006-present: Professor Dept. Health Risk Assessment, China Medical University, Taichung, Taiwan

Research Interests:

The research themes in my lab aim to air quality management, pollution control, solid waste disposal and environmental risk assessment.

Representative Publications:

1. Tsai J.H., Huang P.H., **Hung-Lung Chiang***, [Air pollutants and toxic emissions of various mileage motorcycles for ECE driving cycles](#). Atmospheric Environment, 153, 126-134, 2017, (*Corresponding author).
2. Tsai, J.H., Tsai, S.M., Wang, W.C., **Chiang Hung-Lung***, [Water-soluble ionic species of coarse and fine particulate matter and gas precursor characteristics at urban and rural sites of central Taiwan](#). Environmental Science and Pollution Research, Vol.23, 16722-16737, 2016. (*Corresponding author).
3. Chiang H.M., Cho K.Y., Zeng L.X., **Chiang Hung-Lung***, [Characteristics of carbon material formation on SBA-15 and Ni-SBA-15 templates by acetylene decomposition and their bioactivity effect](#) Materials 2016 9(5), 350; doi:10.3390/ma9050350 (*Corresponding author).
4. Tsai J.H., Huang P.H., **Hung-Lung Chiang***, [Characteristics of volatile organic compounds from motorcycle exhaust emission during real-world driving](#). Atmospheric Environment, 2014, 99, 215-226. (*Corresponding author).

HSUEH-CHUN LIN

Associate Professor, Graduate Institution of Public Health, College of Public Health

Ph.D., Civil and Environmental Engineering, University of California at Los Angeles (UCLA), 1998

Phone: (886)-4-22053366 ext. 6506

Email: snowlin@mail.cmu.edu.tw

URL: http://webap.cmu.edu.tw/TchEportfolio/index_1/snowlin



Research Interests: Computing Structural Mechanics, Medical and Healthcare Information System, Public Health Informatics, Environmental and Health Monitoring System, Wireless Sensor Network, Ubiquitous Healthcare Management System, Database System, Clinical Decision Support System, Neuro-Fuzzy Inference System, Web Services and Cloud Computing

Academic Distinctions:

Appointments:

1995-1998: Ph.D.: Department of Civil and Environmental Engineering, UCLA, USA

1998-1999: Post-doctor Fellow: Department of Mechanical and Aerospace Engineering, UC San Diego, USA

1999-2003: Director: Telestar Corporation, USA

2003-2006: Assistant Professor: Department of Information Management and Computer Science, Ming Dao University, Taiwan

2006-2012: Assistant Professor, Department of Health Risk Management, CMU, Taiwan

2012-present: Associate Professor, Department of Health Risk Management, CMU, Taiwan

Research Interests:

I am interested in multidisciplinary studies of engineering technology and medical informatics. My research topics including computing structural mechanics, information technology, database system, clinical decision support system, ubiquitous healthcare management system, and environmental monitoring system on wireless sensor network. In the big data and web services era, the intelligent cloud computing and analytics simulation models for health improvement and environmental surveillance become my future works.

Representative Publications:

[Fuzzy Computing Model of Activity Recognition on WSN Movement Data for Ubiquitous Healthcare Measurement.](#)

Chiang S.-Y., Kan Y.-C., Chen Y.-S., Tu Y.-C., **Lin H.-C.*** *Sensors*. **2016**; 16, 2053; doi: 10.3390/s16122053

[An Activity Recognition Model Using Inertial Sensor Nodes in a Wireless Sensor Network for Frozen Shoulder](#)

[Rehabilitation Exercises.](#) **Lin H.-C.***, Chiang S.-Y., Lee K., Kan Y.-C. *Sensors*. **2015**; 15(1):2181-2204; doi: 10.3390/s150102181

[Development of Online Diary and Self-Management System on e-Healthcare for Asthmatic Children in Taiwan.](#) **H.-C.**

Lin*, L.-C. Chiang, W.-N. Wen, J.-L. Huang. *Computer Methods and Programs in Biomedicine*. **2014**; 116(3):299-310. doi: 10.1016/j.cmpb.2014.05.004.

[Development of a Real-Time Clinical Decision Support System upon the Web MVC-based Architecture for Prostate](#)

[Cancer Treatment.](#) **Lin, H.-C.***, H.-C. Wu, C.-H. Chang, T.-C. Li, W.-M. Liang, J.-Y. Wang. *BMC Medical Informatics and Decision Making*. **2011**; 11:16. doi: 10.1186/1472-6947-11-16

[The Comprehensive Gateway Model for Diverse Environmental Monitoring upon Wireless Sensor Network.](#) **Lin,**

H.-C.*, Kan, Y.-C., Hong, Y.-M. *IEEE Sensors Journal*. **2011**; 11(5):1293-1303. doi: 10.1109/JSEN.2010.2088389

Hui-Tsung Hsu

Chair of Department of Health Risk Management
Associate Professor, Department of Health Risk Management, College of
Public Health

Ph.D., Civil Engineering, Texas A&M University (U.S.A), 1995

Phone: (886)-4-22053366 ext6502

Email: hthsu@mail.cmu.edu.tw

URL: http://webap.cmu.edu.tw/TchEportfolio/index_3/hthsu



Research Interests: Exposure assessment, Health Risk Assessment,

Academic Distinctions:

Distinguished Teaching Professor, Department of Health Risk Management, CMU (2012)

Appointments:

1996-1998: Postdoctoral fellow: Hydrotech Research Institute, National Taiwan University

1998-2002: Associate Research Fellow: Taiwan Research Institute

2002-2004: Assistant Professor: Department of Environmental Science and Engineering, Fooyin University

2004-2011: Assistant Professor: Department of Health Risk Management, CMU

2011-present: Associate Professor: Department of Health Risk Management, CMU

2012-present: Chair: Department of Health Risk Management, CMU

Research Interests:

My primary research is to use variety of biomarkers for assessing human exposure to environmental chemicals in order to facilitate the identification of risk factors, as well as the formation of hypotheses for potential health effects. We are currently investigating the human exposure to heavy metals and its health effects. Blood and urine samples were collected and concentrations of heavy metals in blood, serum malondialdehyde (MDA), plasma glutathione (GHS), and urinary 8-OHdG were measured. Association between the health effects such as type 2 diabetes, metabolic syndrome, chronic kidney failure, and heavy metals exposure were investigated.

Representative Publications:

[Dynamic real-time monitoring of chloroform in an indoor swimming pool air using open-path Fourier transform infrared spectroscopy.](#) Chen MJ, Duh JM, Shie RH, Weng JH, **Hsu HT***. *Indoor Air* **2016** May15, 26:457-467.

[Kinetics for the distribution of acrylamide in French fries, fried oil and vapor during frying of potatoes.](#) **Hsu HT**, Chen MJ, Tseng TP, Cheng LH, Huang LJ, Yeh TS. *Food Chemistry* **2016** May 19, 211:669-678.

[Excess Lifetime Cancer Risk Assessment of Volatile Organic Compounds Emitted from a Petrochemical Industrial Complex.](#) Chen MJ, Lin CH, Lai CH, Cheng LH, Yang YH, Huang LJ, Yeh SH, **Hsu HT***. *Aerosol and Air Quality Research* **2016** Aug, 16:1954-1966.

[Differential accumulation of trace elements in ventral and dorsal muscle tissues in tilapia and milkfish with different feeding habits from the same cultured fishery pond.](#) Ling MP, Wu CC, Yang KR, **Hsu HT***. *Ecotoxicology and Environmental Safety* **2013** Jan 3, 89:222-230.

[A statistical regression model for the estimation of acrylamide concentrations in French fries for excess lifetime cancer risk assessment.](#) Chen MJ, **Hsu HT***, Lin CL, Ju WY. *Food and Chemical Toxicology* **2012** Jul 15, 50:3867-3876.

CMU Faculty Profile

CHI-JUNG CHUNG

Associate Professor, Department of Health Risk Management, College of Public Health

Ph.D., Taipei Medical University (Taiwan), 2009

Phone: (886)-4-22053366 ext6505

Email: cjchung@mail.cmu.edu.tw

URL: <http://cmusorm.cmu.edu.tw/english/faculty.html>



Research Interests: Environmental Epidemiology, Molecular Epidemiology

Academic Distinctions:

Appointments:

2009-2010: Postdoctoral fellow: Division of Environmental Health and Occupational Medicine, National Health Research Institutes

2010-2011: Postdoctoral fellow: Department of Medical Research, CMUH

2011-2015: Assistant Professor: Department of Health Risk Management, College of Public Health, CMU

2015- present: Associate Professor: Department of Health Risk Management, College of Public Health, CMU

Research Interests:

The research themes in my lab aim to explore the effects of environmental heavy metals and other relevant factors on the various mechanisms of urothelial carcinoma and dementia, including oxidative stress and DNA methylation.

Representative Publications:

[Relationships among DNA hypomethylation, Cd, and Pb exposure and risk of cigarette smoking-related urothelial carcinoma.](#) Chung CJ, Chang CH, Liou SH, Liu CS, Liu HJ, Hsu LC, Chen JS, Lee HL*. **Toxicol Appl Pharmacol.** 2017 Feb 1;316:107-13.

[Patients with urothelial carcinoma have poor renal outcome regardless of whether they receive nephroureterectomy.](#) Hung PH, Tsai HB, Hung KY, Muo CH, Chung MC, Chang CH, Chung CJ*. **Oncotarget.** 2016 Sep 20;7(38):61679-89.

[Reduced 5-methylcytosine level as a potential progression predictor in patients with T1 or non-invasive urothelial carcinoma.](#) Chung CJ, Chang CH, Chuu CP, Yang CR, Chang YH, Huang CP, Chen WC, Chung MC, Chang H*. **International Journal of Molecular Sciences.** 2014 Dec 30;16(1):677-90.

[Association of DNA methyltransferases 3A and 3B polymorphisms, and plasma folate levels with the risk of urothelial carcinoma.](#) Chung CJ*, Chang CH, Liu CS, Huang CP, Chang YH, Chien SN, Tsai PH, Hsieh HA. **PLoS One.** 2014 Aug 15;9(8):e104968.

Yu-Ching Lan

Associate Professor, Department of Health Risk Management, College of Public Health, China Medical University, Taichung, Taiwan

Ph.D., National Yung-Ming University. (Taiwan), 2005

Phone: (886)-4-22053366 ext6509

Email: yclan@mail.cmu.edu.tw

URL: <http://cmusorm.cmu.edu.tw/english/faculty.html>



Research Interests: Molecular Epidemiology, Molecular Evolution Analysis, Emerging Infectious Diseases, AIDS, Preventive Medicine, Bioinformatics, Virology, Immunology.

Appointments:

- 2012-Now Associate Professor
Department of Health Risk Management, School of Public Health
China Medical University, Taichung, Taiwan
- 2010-2011 Visiting Scholar
Department of Community Health Sciences, School of Public Health
University of California Los Angeles (Sponsor: Dr. Donald E. Morisky)
- 2006-2012 Assistant Professor
Department of Health Risk Management, School of Public Health
China Medical University, Taichung, Taiwan
- 2005-2006 Postdoctoral Fellow in AIDS Prevention and Research Center
National Yang-Ming University, Taipei, Taiwan

Research Interests:

My major research works are including design and develop the epidemiological and molecular biological studies to understand the interactions of infectious agents and their hosts, based on analysis of quantitative information (including phylogenetic, evolution and genetically phylodynamic analysis). I usually cooperate with diverse teams and training students for learning different investigating skills as a health data scientist in Biolab. We also use innovation health BigData and mHealth (healthcare using mobile wireless technologies) to improve healthcare and the quality of life for elderly and chronic patients.

Representative Publications:

1. Hsieh Ying-Hen*, Hsiang-Min Huang, Yu-Ching Lan. On Temporal Patterns and Circulation of Influenza Virus Strains in Taiwan, 2008-2014: Implications of 2009 pH1N1 Pandemic. PLoS One. 2016 May;11(5) : e0154695
2. Yih-Ing Hser *, Di Liang, Yu-Ching Lan, Balasingam Kasinather Vicknasing, Amit Chakrabarti. Drug Abuse, HIV, and HCV in Asian Countries. Journal of Neuroimmune Pharmacology. 2016 Mar; 11(3) : 383-393
3. Marya Schulte, Di Liang, Fei Wu, Yu-Ching Lan, Wening Tsay, Jiang Du, Min Zhao, Xu Li, Yih-Ing Hser*. A Smartphone Application Supporting Recovery from Heroin Addiction: Perspectives of Patients and Providers in China, Taiwan, and the USA. Journal of Neuroimmune Pharmacology. 2016 Feb; 11(3) : 511-522