

# TANG Yu Ming 鄧宇明

## **WORK EXPERIENCE**

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### Hong Kong Community College

<http://www.hkcc-polyu.edu.hk/>

#### **Visiting lecturer (2014 – to present)**

- Giving lectures and tutorials for two subjects namely "Physics I" and "Engineering Materials"
- Preparing notes and tests for the subjects

### Department of Applied Biology and Chemical Technology of the Hong Kong Polytechnic University

<http://www.polyu.edu.hk/>

#### **Project fellow (2012 -2014)**

- Developing an e-learning platform with a self-learning package in three science subjects namely biology, chemistry and physics for fresh undergraduate students attempting via personal computer or smart phone application
- Incorporating self-assessment components in the three e-learning packages for students to continuously monitor and evaluate their own performance
- Conducting student feedback surveys to evaluate the effectiveness of the e-learning platform
- Being appointed as a guest lecturer for the subject “Science and Technology of Economic Importance” (AP1D01)

#### **Key Achievements**

- Three self-learning packages including assessment tests and assignments have been accomplished and released on the e-learning platform. The scores of each tests and assignments were monitored continuously
- Students who were highly participated in the blackboard packages are more probable to gain grade “B” or above in the final examination.
- The comments from students on my invited lecture of the subject “Science and Technology of Economic Importance” were positive.

### Student Hall of Residence of the Hong Kong Polytechnic University <http://www.polyu.edu.hk/hall/>

#### **Senior tutor (2006 - present)**

- Organizing inter-hall events
- Liaising with other tutors, accommodation services, and students
- Maintaining good order within the Hall and, where necessary, to exercise disciplinary powers in accordance with the Hall Disciplinary Procedure
- Planning and monitoring the budget to ensure cost effectiveness

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Pok Oi Hospital Tang Pui King Memorial School

<http://www.tpk.edu.hk>

**Substitute teacher (2005, 1 week)**

- Delivered teaching services in subject integrated science and physics for form 3 to form 7 students
- Participated in teaching materials development
- Reported to subject leader about the learning progress of students

**Teaching assistant (2010, 6 months)**

- Delivered extra physics tutorials for students who were preparing the Hong Kong Certificate of Education Examination (HKCEE)
- Prepared notes and quizzes for students

## **EDUCATION**

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2007-2011	Ph.D., The Hong Kong Polytechnic University
2005-2007	M.Phil, The Hong Kong Polytechnic University
2002-2005	B.Sc (Hons), The Hong Kong Polytechnic University
1995-2001	Pok Oi Hospital Tang Pui King Memorial School

## **Publications**

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1. Tang, Y.M. and Ong, C.W, International Journal of Hydrogen Energy (accepted) “Analysis and improvement of cyclic stability of H<sub>2</sub> sensing properties of Pd/Mg-Ni films”.
2. Tang, Y.M. and Ong, C.W, Solid State Ionics, 184, 88-91 (2011) “Stability of hydrogen-induced optical switching properties of palladium-coated magnesium-nickel films”.
3. Tang, Y.M. and Ong, C.W, Journal of Materials Research, 24, 1919-1927 (2009), “Sputtering pressure dependence of hydrogen-sensing effect of palladium films”.
4. Tang, Y.M. and Ong, C.W, Journal of Materials Research, 24, 1928-1935 (2009), “Room-temperature hydrogen-induced resistivity response of Pd/Mg-Ni films”.
5. Tang, Y.M. and Ong, C.W, Applies Physics A-Materials Science & Processing, 91, 701-706 (2008), “Elemental and phase composition analysis of hydrogen-sensitive Pd/Mg-Ni films”.
6. Y.M. Tang and C.W. Ong, Smart Coatings, Orlando, Florida, USA, Feb 21-23, 2007. “Dependence of Switching Properties of Magnesium-nickel Films on the Thickness of Palladium Overlayer and Substrate Temperature”.

## **TANG Yu Ming 鄧宇明**

7. Y.M. Tang, Y.B. Chan and C.W. Ong, Mater. Res. Soc. Symp. Proc. 1042, 1042-S07-11 (2008).  
“Mechanisms for the variation of electrical resistivity of palladium films in hydridation-dehydridation processes”.

### **Conference papers and Presentations**

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Participating the international conference “European Materials Research Society (EMRS) 2010 Spring Symposium”.

Participating the international conference “Smart Coating 2007”.

### **Award**

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Best poster award in European Materials Research Society (EMRS) 2010 Spring Symposium, “Stability of hydrogen-induced optical switching properties of palladium-coated magnesium-nickel films”.

### **Additional information**

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- ★ English (Fluent), Cantonese (Native), Mandarin (Fluent)
- ★ Computer skills: Excellent knowledge in Excel, Word, PowerPoint, C++