

Chieh-Yin Wang

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EDUCATION

- M.S. in Chemical Engineering, University of Florida, Florida Aug. 2012 – May 2014
Achievement Award | College of Engineering
Best Teaching Assistant Award | Unit Operations Lab
- B.S. in Chemical Engineering, National Cheng Kung University, Taiwan Sep. 2008 – June 2012
Academic Excellent Award | Rotary international Foundation

WORK EXPERIENCE

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|---|---|
| Siegwerk USA Co.
Chemist II/Application Engineer | Des Moines, IA
June 2016 – Present |
| <ul style="list-style-type: none">• Travels to customer locations to provide technical supports including print quality evaluation, trial setup and printability improvement• Serves as a main contact for company's top 10 customers; prioritizes customer needs, follows up with customers regularly and recommends solutions for printing failures• Resolves specification problems and optimizes ink and coating formula to improve performance, production efficiency increased by 20 %• Develops new ink products by evaluating multiple materials and analyzing polymer properties; results in 5 new products sold in 3 months | |
| Vanton Research Laboratory
Analytical Chemist | Concord, CA
Sep. 2015 – May 2016 |
| <ul style="list-style-type: none">• Analyzed the High performance liquid chromatography (HPLC) and UV-Vis spectrophotometer data to optimized the formulation performance to fit client's needs• Designed drug formulations in different dosage forms (tablet, transdermal patch and capsule) and developed HPLC method to identify the drug substance and impurity• Installed, qualified and troubleshoot Good Manufacturing Practice (GMP) equipment and provided technical input for change requests• Revised and updated SOPs to meet current Good Manufacturing Practice (cGMP) regulations including Research Methods and Protocol Reports | |
| Taiwan Semiconductor Manufacturing Company (TSMC)
Process Engineer Intern Etch Department | Tainan, Taiwan
Feb. 2015 – May 2015 |
| <ul style="list-style-type: none">• Developed and created production process recipes for products• Utilized statistical process control (SPC), process control chart to monitor tools' status to ensure reliabilities | |
| University of Florida, Department of Chemical Engineering
Research Assistant Unit Operation Lab | Gainesville, Florida
July 2014 – Dec. 2014 |
| <ul style="list-style-type: none">• Advanced hands on wafer processing skills in dry thermal oxidation, photolithography, wet and dry etching• Integrated the Continuous and Batch Distillation system to reduce costs of pipes replacement by using piping and instrumentation diagram/drawing (P&ID)• Maintained and performed trouble-shooting on advanced instrumentation• Responsible for risk assessment by hazard communication, including hazard and operability analysis for health and safety | |

RESEARCH EXPERIENCE

University of Florida, Department of Materials Science and Engineering Gainesville, Florida
Research Assistant | Batich Research Group **Aug. 2013 – May 2014**

Thesis title: Making iron oxide phantoms for Magnetic Resonance Imaging (MRI) deposits in neurodegenerative disease

- Fabricated dispersed iron oxide particles in an agarose or alginate matrix that reproduced the detection of iron in the brain via MRI as seen in Parkinson's and Alzheimer's disease

National Cheng Kung University, Department of Chemical Engineering Tainan, Taiwan
Research Assistant | Chi Wang lab **Sep. 2010 – June 2012**

Thesis title: Preparation of PBT Nanofibers via Electrospinning

- Investigated the thermal properties of polymer by using Differential Scanning Calorimetry (DSC)
- Produced 400 nm Polybutylene Terephthalate (PBT) fiber and analyzed the fiber by Transmission Electron Microscopy (TEM) and Scanning Electron Microscope (SEM)

TEACHING EXPERIENCE

University of Florida, Department of Chemical Engineering **Gainesville, Florida**
Teaching Assistant | Unit Operation Lab **Jan. – Dec. 2014**

- Guided 100 undergraduate chemical engineering students to perform 8 experiments and evaluated their performance
- Developed analytical methods for unit operation equipment such as cooling tower and liquid-liquid extraction
- Conducted safety operation procedures and followed EH&S regulation to create a safe working environment
- Documented all laboratory testing and maintained accurate and legible lecture notes

SKILLS

Technical: MATLAB®, Piping Instrument Diagrams (P&IDs), high proficiency in Microsoft applications

Equipment: HPLC, SEM, DSC, GC, TGA

Languages: English (Fluent), Mandarin (Native)

LEADERSHIP

Director | Annual Advisory Board Meeting, University of Florida **May 2014**

- Determined the duties and responsibilities of individuals in a team for the annual Advisory Board Meeting which included Advisory Board members, Chair, and Professors

Director | Poster presentation event, University of Florida **Dec. 2013**

- Managed the event with 3 professors, 16 TAs and 48 students

Planner | Taiwanese Student Association, University of Florida **Sep. 2012 – Sep. 2013**

- Organized Chinese New Year event for over 100 people and prepared the event's dinner and theatrical production

Planner | Undergraduate Student Association, National Cheng Kung University **Sep. 2009 – Sep. 2010**

- Guided 8 people to organize annual formal event and solicited contributions from local business