

Lili Feng

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Education

- 09/2011-Present** *University of California, Los Angeles (UCLA), LA;* PhD Candidate, Chemical and Biomolecular Engineering Department
GPA 3.56/4.00; GRE: Verbal 600 Quant: 800 Analytical 3.0
- 09/2007-07/2011** *Sichuan University (SCU), Chengdu, China;* Wu Yuzhang Honor College, B.S.; Polymer Science and Engineering Department, GPA 3.64/4.00
- 07/2010-09/2010** *University of California, Los Angeles (UCLA), LA;* Cross-disciplinary Scholars in Science and Technology Summer Program
- 02/2011-06/2011** *University of California, Los Angeles (UCLA), LA;* Cross-disciplinary Scholars in Science and Technology Winter Program
- 02/2010-07/2010** *National Cheng Kung University (NCKU), Taiwan;* Exchange student, Material Science and Engineering Department, GPA 4.00/4.00

Research Experiences

University of California, Los Angeles, LA; Research Assistant, Harold Monbouquette's Group

- 07/2010-09/2010**
- **Developing biosensors with on-probe iridium oxide reference electrode, as well as in vitro sensing of glutamate**
 - Glutamate sensor preparation, iridium oxide electrodeposition, amperometry and CV test with potentiostat
- 02/2011-06/2011**
- **Participated in the fabrication of Microsensor with MEMS techniques**
 - Lithography, metal deposition, oxide/nitride deposition, oxide/nitride etch etc. The equipments, such as Oxide furnace, Karl Suss alignment, old CHA, PECVD, AOE were used in the fabrication of microelectrode array
- 09/2011-present**
- **Research on NADH, Estradiol and neurotransmitters microsensing with microelectrode array sensors**
 - Research on metallic carbon nanotube(CNT) and semiconducting CNT in improving both sensitivity and detection limit of NADH sensing
 - Estradiol detection with enzyme-multiplied immunoassay technique(EMIT) with either spectrophotometer or potentiostat
 - Developing microsensors for neurotransmitter detection, such as glutamate sensor and dopamine sensors and excluding interferences
 - Preparing and optimizing choline sensors with best PPy coating, Nafion coating as well as choline oxidase loading and collaborate with neuroscience department for further implantation of the sensors in rats and monitoring choline release in rats' brain

National Chengkung University, Taiwan; Research Assistant, Chem Lin's Group

- 02/2010-07/2010**
- **Involved in research on biomedical material, mainly on titanium alloy and HA for artificial bones**
 - Literature review and mechanical properties measurement of titanium alloy

Sichuan University, Chengdu, China; Research Assistant, Yi Gu's Group

- 11/2007-01/2010**
- **Participated in research on conductive polymer, such as polypyrrole, polyaniline, polythiophene in College Student Innovation Program**
 - Literature review, conductive polymer synthesis, preparation and characterization
 - **Researched on heat-resistant engineering material, mainly on benzoxazine and polyimide**
 - Mechanical properties measurement and phase separation study

Work Experiences

- 09/2012-12/2012**
- **Teaching assistant of 104B Lab- Chemical and Biomolecular Engineering Laboratory, UCLA**
 - Guided senior students with control experiment, distillation, reverse osmosis, stirred tank reactor experiment
- 09/2013-12/2013.**
- **Teaching assistant of E87- Introduction to Engineering Disciplines**
 - Mentored several freshmen on the project of neurotransmitter sensing, lectured on basic principles and followed by hands-on training
- 08/2009.8-02/2010**
- Voluntary worker for unprivileged terminal cancer patients at Chinawest Hospital and Chengdu Blood Bank center;;
- 2009**
- Part-time editor at Chengdu Broadcasting Station-The Voice of Chengdu, "Learn English From Songs"
- 2012**
- Voluntary editor of "chihuo.org"
- 2008-2009**
- Math tutor, Chemistry tutor

Leadership Experiences and Speeches

- Student superintendent helped recruit new top 1% students to Wu Yuzhang college; 2008;
- Student Leader of Class 2, 2007 of Wu yuzhang College; 2008.2-2008.9;
- Director of Social Practice Department director at Wu yuzhang college Student Union; 2009.2-2009.9;
- Youth Volunteer League leader at Wu yuzhang college; 2009.9-2010.2
- Student representative of Chinese exchange students to be interviewed by the journalist of China Daily News, Tainan, 2010.3
- Student representative of 84 top students from China to give speech at closing reception of UCLA-CSST program, 2010.9
- Representative of senior students to give speech at welcome ceremony for freshman of Wu Yuzhang college together with the president of Sichuan University, 2010.9
- Poster presentations at 2012&2014 Tech Forum, UCLA, "Implantable Microprobe with Microelectrode Array Sensors for Parallel, Near-Real-Time Monitoring of Glutamate and Dopamine" and "Carbon Nanotube Coated Platinum Electrodes for NADH sensing", 2012.2, 2014.2
- Student Reviewer of CSST program; reviewed and scored over 100 resumes of students from top universities in China, 2014.11

Honors And Awards

- Excellent Student of Sichuan University, 11/2008, 11/2009; Excellent Graduate of Sichuan University, 06/2011
- Innovation Talent Prize (2%), 06/2009
- Scholarship of Huang Qianheng Fund, 11/2009
- Integrated Scholarship-third level in Sichuan University, 11/2009
- Excellent student assistant in Sichuan University; Excellent Student Leader of Wu Yuzhang college, 11/2010
- Chemical and Biomolecular Engineering Department Dean fellowship, 09/2011, 09/2014

Interests

Singing, dancing, camping, outdoor activities, traveling, food exploring, history, poker, card games, forensic science