

Joe W. Su

Graduate Research Assistant

University of Wisconsin at Madison, Division of Pharmaceutical Sciences, School of Pharmacy

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### EDUCATION AND TRAINING

INSTITUTION	DEGREE	YEARS	FIELD OF STUDY
University of Wisconsin, School of Pharmacy, Madison, WI	PhD	2002 -	Host-Guest Chemistry
University of California, College of Chemistry, Berkeley, CA	BS	1998 - 2002	Analytical Chemistry

### RESEARCH EXPERIENCE

- 05/2003 – Graduate Research Assistant (PhD)  
 University of Wisconsin at Madison, Division of Pharmaceutical Sciences, School of Pharmacy, Madison, WI  
 Research Advisor: Professor Ronald Burnette  
 - Investigation of binding behavior between alkali metal guests and cryptand 222 hosts  
 - Investigation of crystal lattice packing behavior of 1:1 benzo-12-crown-4:LiSCN  
 - Formulation and application of novel, practical research methodologies with Hartree Fock and Density Functional Theory methods, nuclear magnetic resonance spectroscopy, and x-ray crystallography
- 01/2001 – 06/02 Undergraduate Research Assistant (BS)  
 University of California at Berkeley, Department of Chemistry, College of Chemistry, Berkeley, CA  
 Research Advisor: Professor Marcin Majda  
 - The Hg/Hg carbon monolayer junction and electron tunneling
- 11/1997 – 07/98 Research Assistant  
 University of California at Irvine, Center of Learning and Memory, Irvine, CA  
 Research Advisor: Professor Benno Roozendaal  
 - Investigation of the role of glucocorticoids in long-term memory enhancement of Sprague-Dawley rats

### SERVICE AND WORK EXPERIENCE

- 08/2004 – Graduate Teaching Assistant  
 University of Wisconsin at Madison, School of Pharmacy, Madison, WI  
 Pharmaceutical Sciences 420: Introduction to Drug Action and Delivery I  
 Course Coordinator: Professor John Kao  
 (Fall Semester 2003, 2004, 2005, 2006, 2007)  
 Pharmaceutical Sciences 421: Introduction to Drug Action and Delivery II  
 Course Coordinators: Professor Ronald Burnette, Professor Timothy Heath  
 (Spring Semester 2004, 2005, 2006, 2007, 2008)
- 09/2006 – 09/07 Chair  
 University of Wisconsin at Madison, School of Pharmacy, Madison, WI  
 American Association of Pharmaceutical Scientists (AAPS) Student Chapter  
 - Previously served as Vice Chair and Systems Administrator  
 - uwaaps.blogspot.com

- 03/2005 – 01/08      Committee Member  
AAPS, Arlington, VA  
Distance Learning Committee  
Program Coordination Committee
- 07/2004 – 07/05      Committee Member  
University of Wisconsin at Madison, School of Pharmacy, Madison, WI  
Graduate Student Liason Committee  
- Interface with Pharmaceutical Sciences Division Admissions Committee to assist with applicant review, the interview process, and activities
- 06/2004 – 05/05      Graduate Project Assistant  
University of Wisconsin at Madison, School of Pharmacy, Madison, WI  
Course Coordinator: Professor Timothy Heath  
- Creation and implementation of a laboratory exercise investigating the hydrolysis of p-aminophenyl acetate by chicken liver esterase and its pharmacokinetics
- 06/2001 – 09/01      Undergraduate Industrial Intern  
Bayer HealthCare, Berkeley, CA  
Mentors: Anthony Chan, Amelia Ng  
- Analytical and cGMP training for materials clearance
- 06/1998 –              Systems Administrator  
MegaCare Inc., Las Vegas, NV  
- Lead designer, programmer, and administrator of megacare.com
- 06/1998 –              Systems Administrator  
SUSS Technology Corp., Las Vegas, NV  
- Lead designer, programmer, and administrator of susstech.com

## HONORS

- 05/2007              Teaching Assistant Exceptional Service Award, University of Wisconsin, Madison, WI  
08/2003 – 05/08      Oscar Rennebohm Outstanding Teaching Award, University of Wisconsin, Madison, WI  
(2003 – 2004, 2004 – 2005, 2005 – 2006, 2006 – 2007)
- 08/2007 – 05/08      Vilas Travel Grant, University of Wisconsin, Madison, WI  
08/2004 – 07/07      American Foundation for Pharmaceutical Education Fellow  
08/2002 – 07/03      Wisconsin Distinguished Fellow, University of Wisconsin, Madison, WI  
05/2000 –              Golden Key National Honor Society  
05/1998              *Summa cum laude*, University High School, Irvine, CA  
05/1998              Track and Field, Field MVP, Discus, Shot Put, University High School, Irvine, CA

## PUBLICATIONS

2. J. W. Su and R. R. Burnette, Determination of 222 cryptand-ion binding selectivities in water, methanol, and acetonitrile with HF/DFT methods, *J. Phys. Chem. A*, **2008**, *submitted*.
1. I. A. Guzei, L. C. Spencer, J. W. Su, and R. R. Burnette, Low-temperature enantiotropic *k2* phase transition in the ionic 222-cryptand complex with LiClO<sub>4</sub>, *Acta Cryst.*, **2006**, *B63*, 93-100.

## PROCEEDINGS

2. J. W. Su and R. R. Burnette, <sup>13</sup>C NMR chemical shielding: Probing conformational behavior of 222 cryptand in condensed phases, 234th American Chemical Society National Meeting & Exposition, Boston, MA, August 19-23, 2007.
1. J. W. Su and R. R. Burnette, Determination of 222 cryptand-ion binding selectivities with HF/DFT methods and X-ray crystallography, 233rd American Chemical Society National Meeting & Exposition, Chicago, IL, March 25-29, 2007

**SOCIETY MEMBERSHIP**

- 2006 – American Chemical Society
- 2002 – American Association of Pharmaceutical Sciences