

- 2000 – 2004 **Dean’s List Status**, Gustavus Adolphus College
- 2000-2004 **Trustees Scholarship**, Gustavus Adolphus College
- 2000 **3M Liberal Arts Scholarship**

RESEARCH EXPERIENCE

- 2004 – present **Research Assistant**, University of Minnesota
Advisor: Prof. Edgar A. Arriaga
- Develop HPLC-MSMS method for metabolite analysis
 - Develop model of metabolism
 - Develop separation method for obtaining pure organelle fractions from cancer and age model systems
- 2002-2004 **Undergraduate Research**, Gustavus Adolphus College
Advisor: Prof. Lawrence Potts
- Catalysis of the chemisorption reaction of octadecyl polyacrylamide to an aluminum oxide surface
 - Using SPME-assisted GC-MS for analysis of triazine herbicides in the Minnesota River
 - SPME-assisted GC-MS analysis of chemical taggants used in commercial explosives

RESEARCH INTERESTS

- Development of HPLC, CE and MS techniques for low level detection and minimal sample size.
- Analysis of metabolism and degradation products within biological systems.

PUBLICATIONS

1. Kostal, V.; Katzenmeyer, J.; Arriaga, E.A. “Capillary Electrophoresis in Bioanalysis”, *Anal. Chem.*, **2008**, *80*, 4533–4550

PRESENTATIONS

1. Katzenmeyer, J.; Wang, Y.; Arriaga, E. “Monitoring Age Related Changes of Metabolism of Doxorubicin Using HPLC-LIF-MS/MS,” Oral Session: Unique HPLC-MS Techniques in Bioanalysis, ASMS 2009, Philadelphia, PA, June 2009.
2. Katzenmeyer, J.; Arriaga, E.A. “Analysis of the Subcellular Metabolic Profile of Doxorubicin Using HPLC-MS/MS,” Oral Session: Bioanalytical Separations I, Pittcon 2008, New Orleans, LA, March 2008.
3. Katzenmeyer, J. “Understanding Human Toxicity of Common Herbicides: Paraquat and Diquat” Analytical Seminar, University of Minnesota, April 21, 2008.
4. Katzenmeyer, J. “Analysis of the Subcellular Profile of Doxorubicin Using HPLC-MS/MS,” Graduate Student Research Symposium, University of Minnesota, May 15, 2007.
5. Navratil, M.; Wang, Y.; Katzenmeyer, J.; Sa, R.; “Techniques in Subcellular Analysis,” Bioanalytical seminar series, University of Minnesota, March 27, 2008.
6. Katzenmeyer, J. “Subcellular Metabolic Analysis of Doxorubicin,” Bioanalytical seminar series, University of Minnesota, March 8, 2007.

7. Katzemeyer, J.; Potts, L. "Analysis of Triazine Herbicides in the Minnesota River by SPME-Assisted GC-MS," Winchell Undergraduate Research Symposium, Minnesota Academy of Science, April 24, 2004.
8. Katzemeyer, J.; Potts, L. "Headspace Analysis of Chemical Taggants Used in Plastic Explosives Using SPME-GC-MS," Winchell Undergraduate Research Symposium, Minnesota Academy of Science, April 24, 2004.
9. Katzemeyer, J.; Potts, L. "Catalysis of the Chemisorption Reaction of Octadecyl Polyacrylamide to an Aluminum Oxide Surface," Sigma Xi Research Symposium, Gustavus Adolphus College, 2003.

MENTORSHIP

- 2004-present **University of Minnesota**
- Mentored and trained 1 undergraduate student in the Lando program in the use of CE based immunoassays.
 - Mentored and trained 1 undergraduate student in the use of magnetic particles for organelle fractionation and enzyme assays.
 - Trained 4 undergraduate students and 5 graduate students and post-docs in the use of commercial CE instruments (Beckman – Coulter PACE/MDQ)
 - Trained 15 graduate students as teaching assistants for Analytical Chemistry (Chem 2111, Chem 4111W and Chem 4121)

SYNERGISTIC ACTIVITIES

- 2008-present **Graduate Student Workshop Committee**, University of Minnesota-Chemistry
- 2008-present **Chemistry Department Outreach**, University of Minnesota
Presenter
- 2007-present **Chemists in the Library**, Minnesota section of the ACS outreach
Presenter
- 2008-2009 **Amantes de la Ciencia**, Science Museum of Minnesota, Saint Paul, MN (April 2008 and April 2009)
Presenter
- 2007 **The Davidson Institute for Talent Development, Annual Meeting**, Saint Paul, MN, June 22, 2007.
Presenter
- 2001-2004 **Science on Saturday**, Outreach program for Elementary school students in the Saint Peter, Minnesota area, Gustavus Adolphus College. Organizer and presenter: Nov. 2001, 2002 and 2003.
- 2001-2004 **Chemistry Club**, Gustavus Adolphus College
President

PROFESSIONAL EXPERIENCE

- 2008 **Proteomics Workshop**, University of Minnesota Center for Mass Spectrometry and Proteomics, St. Paul, MN
- 2007 **Mass Spectrometry User Training**, MicrOTOF_Q instrument in HPLC-MSMS and CE-MSMS, Bruker Daltonics, Fremont, CA

PROFESSIONAL MEMBERSHIPS

- 2008 – present Scientists in Aging Research Group, University of Minnesota

- 2007 – present Minnesota Mass Spectrometry Discussion Group
- 2007 – present American Association for the Advancement of Science
- 2004 – present American Chemical Society
- 2004 – present Sigma Xi, The Scientific Research Society
Associate Member, Gustavus Adolphus College

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