

## Curriculum Vitae

### **KELLY PALEN**

(Formerly Kelly Daniel)

Forensic Scientist

Washington State Patrol Toxicology Laboratory

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### **PROFESSIONAL EXPERIENCE**

**Forensic Scientist III** – Washington State Patrol Toxicology Laboratory, Seattle, WA.

February 2019 – Present

**Forensic Scientist II** – Washington State Patrol Toxicology Laboratory, Seattle, WA.

August 2017 – February 2019

**Forensic Scientist II** – Kansas Bureau of Investigation Forensic Science Laboratory, Topeka, KS.

August 2015 – July 2017

### **EDUCATION**

**Master of Science, Forensic Science.** May 2015.

Marshall University, Huntington, WV.

**Master of Science, Physical Chemistry.** January 2010.

University of Minnesota – Twin Cities, Minneapolis, MN.

**Bachelor of Science, Chemistry.** May 2008.

Truman State University, Kirksville, MO.

### **CERTIFICATIONS**

**D-ABFT-FT** – American Board of Forensic Toxicology. 2023 – Present.

**Blood Alcohol Analyst Permit** – Washington State Patrol Toxicology Laboratory Division.

December 2017 – Present

### **TRAINING AND COURSEWORK**

**Pharmacology, Detection, and Control Actions of Synthetic Drugs.** Society of Forensic Toxicologists Annual Conference. Denver, CO. October 30, 2023.

**Cannabis Testimony in Today's Environment.** Society of Forensic Toxicologists Annual Conference. Denver, CO. October 30, 2023.

**Neurobiology and Toxicology Aggression Workshop.** American Academy of Forensic Sciences Annual Conference. Seattle, WA. February 22, 2022.

**6 Critical Practices of Leadership.** Washington State Department of Enterprise Services. Sept 15, 2021.

**ANAB Forensic Technical Assessor Training Course.** ANSI National Accreditation Board. May 10-14, 2021.

**Online Forensic Symposium: Current Trends in Forensic Toxicology.** The Center for Forensic Science Research and Education. June 8-10, 2020.

**Forensic Toxicology Instrumentation Techniques and Applications.** The Center for Forensic Science Research and Education. January 14, 2019 – April 29, 2019.

**Robert F. Borkenstein Course on the Effects of Drugs on Human Performance and Behavior.** The Center for Forensic Science Research and Education. Philadelphia, PA. Sept 17-21, 2018.

**Robert F. Borkenstein Course on Alcohol and Highway Safety: Testing, Research and Litigation.** The Center for Forensic Science Research and Education. University of Indiana. Bloomington, IN. May 13-18, 2018.

**Horizontal Gaze Nystagmus.** Dr. Karl Citek. Suquamish, WA. December 6, 2017.

**Advanced Roadside Impaired Driving Enforcement.** Washington State Patrol. Bellevue, WA. November 7-8, 2017.

**DWI Detection and Standardized Field Sobriety Testing.** Seattle Police Department. Seattle, WA. September 13-15, 2017.

## **OTHER EMPLOYMENT**

**Scanning Electron Microscope Technician, Graduate Assistant** – Marshall University, Huntington, WV.

September 2014 – May 2015

**Nuclear Forensics Summer Intern** – Glenn T. Seaborg Institute, Lawrence Livermore National Laboratory, Livermore, CA.

June 2014 – August 2014

**Firearms and Toolmarks Graduate Assistant** – Marshall University, Huntington, WV.

August 2013 – April 2014

**Visiting Instructor in Chemistry** – Morningside College, Sioux City, IA.

September 2011 – August 2013

**Substitute Chemistry Instructor** – St. Cloud Technical and Community College, St. Cloud, MN.

April 2011 – May 2011

**Graduate Research Assistant** – University of Minnesota – Twin Cities, Minneapolis, MN.

Aug 2008 – Aug 2011

**Teaching Assistant** – University of Minnesota – Twin Cities, Minneapolis, MN.

August 2008 – December 2010

**Undergraduate Research Assistant** – Truman State University, Kirksville, MO.

August 2004 – May 2008

**Department of Energy/American Chemical Society 2007 Undergraduate Fellowship in Nuclear and Radiochemistry Summer Student** – San Jose State University, San Jose, CA.

June 2007 – August 2007

**Teaching Assistant** – Truman State University, Kirksville, MO.

August 2005 – May 2007

**Summer Intern** – Minnesota Supercomputing Institute, Minneapolis, MN.

June 2006 – August 2006

## **P R E S E N T A T I O N S**

**“An Overview of Drug Facilitated Sexual Assaults in Washington”**. Washington State Sexual Assault Nurse Examiners in-service Training. Sept 30, 2021.

**“Sexual Assault Investigations – Drug Facilitated Sexual Assaults (DFSA)”**. Washington Criminal Justice Training Center. Seattle, WA. December 9, 2019.

**“Role of Toxicology in Criminal Investigations”**. Washington Criminal Justice Training Center. Seattle, WA. November 20, 2019.

**“Drug Use During Pregnancy and Breastfeeding”**. Washington State Patrol Toxicology Laboratory Lunch and Learn. Seattle, WA. May 9, 2018.

**“Evaluating Methods for Removing Radioactive Contamination from Traditional Forensic Evidence: Moths”**. 67<sup>th</sup> American Association of Forensic Science Meeting. Orlando, FL. February 2015.

**“Evaluating Methods for Removing Radioactive Contamination from Traditional Forensic Evidence: Moths”**. Forensic Science Seminar Series. Marshall University, Huntington, WV. November 7, 2014.

**“Evaluating Methods for Removing Radioactive Contamination from Traditional Forensic Evidence: Moths”**. Summer Student Poster Symposium. Lawrence Livermore National Laboratory, Livermore, CA. August 2014.

**“Doublet-Quartet Gaps of Substituted Carbynes”**. 235<sup>th</sup> American Chemical Society National Meeting. New Orleans, LA. April 2008.

**“Computational Studies on Substituted Carbynes”**. 21<sup>st</sup> Annual Student Research Conference. Truman State University, Kirksville, MO. April 2008.

**“Properties of Substituted Carbynes”**. 20<sup>th</sup> Annual Student Research Conference. Truman State University, Kirksville, MO. April 3, 2007.

**“Computational Studies on the Nucleophilic Destruction of Nerve Agent VX”**. 233<sup>rd</sup> American Chemical Society National Meeting. Chicago, IL. March 2007.

**“Computational Chemical Studies of the Alkaline Hydrolysis of VX”**. 2006 Missouri Academy of Sciences Meeting. Kirksville, MO. April 2006.

**“Computational Chemical Studies of the Alkaline Hydrolysis of VX”**. 20<sup>th</sup> National Conference on Undergraduate Research. Asheville, NC. April 2006.

**“Computational Chemical Studies of Alkaline Hydrolysis of VX Nerve Agent”**. 19th Annual Student Research Conference. Truman State University, Kirksville, MO. April 20, 2006.

**“Atom-Centered Density Matrix Propagation of an SN2 Reaction”**. Winter 2006 Midwest Undergraduate Computational Chemistry Conference. On-line conference. February 2006.

**“Computational Studies on the Destruction of Chemical Warfare Agent VX and Related Compounds”**. Fifth Midwest Undergraduate Computational Chemistry Consortium Conference. Minneapolis, MN. July 2005.

**“Computational Chemical Studies of the Hydrolysis of VX”**. 2005 Missouri Academy of Sciences Meeting. Jefferson City, MO. April 2005.

**“Computational Chemical Studies of the Hydrolysis of VX”**. 18th Annual Student Research Conference. Truman State University, Kirksville, MO. April 14, 2005

## **PUBLICATIONS**

Teruel, R.; Lowe, G.; Fet, V.; **Daniel, K.** Occurrence of a telson gland in the genus *Superstitionia* Stahnke, 1940 (Scorpiones: Superstitioniidae). *Euscorpius*. 2015;204:1–5.

Wiederhold, Jan G.; Cramer, Christopher J.; **Daniel, Kelly A.**; Infante, Ivan; Bourdon, Bernard; Kretzschmar, Ruben. “Equilibrium Mercury Isotope Fractionation between Dissolved Hg(II) Species and Thiol-Bound Hg” *Environ. Sci. Technol.* 2010;44(11):4191-4197.

**Daniel, Kelly A.**; Kopff, Laura, A.; Patterson, Eric V. “Computational Studies on the Solvolysis of the Chemical Warfare Agent VX” *J. Phys. Org. Chem.* 2008;21(4):321-328.

Jay, Ashley N.; **Daniel, Kelly A.**; Patterson, Eric V. “Atom-Centered Density Matrix Propagation Calculations on the Methyl Transfer from CH<sub>3</sub>Cl to NH<sub>3</sub>: Gas-Phase and Continuum-Solvated Trajectories” *J. Chem. Theory and Comput.* 2007;3(2):336-343.