

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

Blood Alcohol Analyst Permit – Washington State Patrol Toxicology Laboratory Division.
December 2017 – Present

TRAINING AND COURSEWORK

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. Borkestein 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. Borkestein 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.

April 2011 – May 2011

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

August 2008 – May 2008

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

PRESENTATIONS

“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”. 67th 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”. 235th American Chemical Society National Meeting. New Orleans, LA. April 2008.

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

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

“Computational Studies on the Nucleophilic Destruction of Nerve Agent VX”. 233rd 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”. 20th 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 CH₃Cl to NH₃: Gas-Phase and Continuum-Solvated Trajectories” *J. Chem. Theory and Comput.* 2007;3(2):336-343.