**Kayron T. Rogers**

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| **Education** |
|  | 2014 Tennessee Technological University, Cookeville, TN MS., Chemistry, Graduated August 20142013 Tennessee Technological University, Cookeville, TN BS., Chemistry, Graduated May 2013 |

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| **Skills** |
|  | * Specialty in separations, especially using Eichrom resins
* Davies and Gray uranium assay titration
* Familiarity with government laboratory policies and safety regulations, including radiological worker training
* Experience working in Class 100 and 1,000 cleanroom laboratories
* Experience in digestion methodologies and chemical sample preparation for analysis of isotopic signatures and trace element concentrations with mass spectrometry
* Experience in operation and use of: NaI gamma detector, HPGe detector, Packard gamma counter, CEM microwave, tube and muffle furnaces, radiochemical hoods and glovebox
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| **Work Experience** |
|  | **UT-Battelle, Oak Ridge National Laboratory**Analytical Chemist, Nuclear Analytical Chemistry & Isotopics Laboratories | **Oak Ridge, TN**June 2016-present |
|  | **Oak Ridge Associated Universities**Post-Master’s Associate, Nuclear Analytical Chemistry & Isotopics Laboratories | **Oak Ridge, TN**June 2015-June 2016 |
|  | **Fentress County Board of Education**Chemistry/Physics Teacher | **Clarkrange, TN**August 2014-May 2015 |
| **TTU/ORNL***Graduate Research Assistant, Chemical Separations* | **Cookeville, TN**August 2013-August 2014 |
| **B & W Y-12 Security Complex** *Technical Chemist, Radioanalytical and Isotopic Group*  | **Oak Ridge, TN**November 2013-December 2013 |
| **Oak Ridge National Laboratory** *HERE Research Intern, Chemical Sciences Division* | **Oak Ridge, TN**May 2013-August 2013 |
| **Tennessee Technological University** *Supervisor, Campus Recreation, Fitness Center* | **Cookeville, TN**August 2010-May 2013 |
| *Teaching Assistant, Department of Chemistry* | August 2011-December 2012 |
| *Researcher, TTU URECA Grant*  | May 2012-August 2012 |
| **Honors** |
|  | ORNL Significant Event Award, 2018Tennessee Higher Education Commission Harold C. Love Award, 2013Tennessee Technological Undergraduate Analytical Chemistry Award, 2012 |
| **COnference presentations** |
|  | 2014 *New nitrogen based extractants for the separation of minor actinides from lanthanides.* K.N. Tevepaugh, D. D. Ensor, J. D. Carrick, S. Tai, L. H. Delmau. ***247th American Chemical Society Meeting,*** Dallas, TX, March20142017 *High precision trace impurities analyses in uranium oxide CRM/WRM Materials for use in nuclear forensics* Rogers, K.; Hexel, C.; Giaquinto, J. ***Interagency Technical Nuclear Forensics Program Review*** , Oak Ridge, TN, July 20172018 *Trace Impurity Analysis in Uranium Oxide Reference Material via Gravimetric Standard Addition and Isotope Dilution Mass Spectrometry* Tevepaugh, K; Giaquinto, J.; Essex, R.; Metzger, S.C.; Ticknor, B. W.; Hexel, C.R. ***MARC XI Methods & Applications of Radioanalytical Chemistry***, Kailua-Kona, HI, April 2018 |

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| **Selected Reports and publications** |
|  | Delmau, L. H., **Tevepaugh, K. T.**, Freiderich, M.E. Trivalent Actinide – Lanthanide Separation using Bis-Dithio Phosphinic Acids and Bis Triazinyl Pyridine Derivatives; ORNL/LTR-2013/343; ORNL; Oak Ridge, TN, 2013.Delmau, L. H., Hill, T. G., **Tevepaugh, K.N.**, Richards, K.D., Carrick, J.D., Ensor, D. Trivalent Actinide-Lanthanide Separation using Bis Triazinyl Pyridine Derivatives; ORNL/LTR-2015/448; ORNL; Oak Ridge, TN, 2015.**Tevepaugh, K. N.**, Carrick, J.D., Tai, S.; Coonce, J.G.; Delmau, L.H.; Ensor, D.D. Separation of Americium from Europium using Camphor-BisTriazinyl Pyridine: A Fundamental Study, *Solvent Extraction and Ion Exchange,* 34:1, 13-25, 2016.**Tevepaugh, K. N.**, Coonce, J., Tai, S.; Delmau, L.H.; Carrick, J.D.; Ensor, D.D. Chromatographic Separation of Americium from Europium Using bis-2,6-(5,6,7,8-tetrahydro-5,9,9-trimethyl-5,8-methana-1,2,4-benzotriazin-3-yl) pyridine, *Journal of Radioanalytical and Nuclear Chemistry,* 2017.**Rogers, K. T.**, Giaquinto, J.; Essex, R.M.; Metzger, S.C.; Ticknor, B.W.; Hexel, C.R. Trace Impurity Analysis in Uranium Oxide via Hybrid Quantification Techniques-Gravimetric Standard Addition and Isotope Dilution Mass Spectrometry, *Journal of Radioanalytical and Nuclear Chemistry,* 318:1, 685-694,2017.Metzger, S.C.; Ticknor, B.W.; **Rogers, K.T.;** Bostick, D.A.; McBay, E.H.; Hexel, C.R. Automated Separation of Uranium and Plutonium from Environmental Swipe Samples for Multiple Collector Inductively Coupled Plasmas Mass Spectrometry, *Analytical Chemistry*, 90:15, 9441-9448, 2018.**Rogers, K**.; Hexel, C. Davies and Gray Analysis of 233U for Reference Material Production, ORNL/TM-2018/950, ORNL, 2018.Metzger, S.C.; **Rogers, K.T.;** Bostick, D.A.; McBay, E.H.; Ticknor, B.W.; Manard, B.T.; Hexel, C.R. Optimization of Uranium and Plutonium Separations Using TEVA and UTEVA cartidges for MC-ICP-MS Analysis of Environmental Swipe Samples, *Talanta,* 198:1, 257-262, 2019.**Rogers, K**.; Metzger, S.; Ticknor, B.; Hexel, C. Analysis of Trace Elements in Uranium Oxide for Reference Material Production, ORNL/SPR-2019/1088; ORNL; 2019. |