

# Greg Westphal

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CONTACT INFORMATION	Graduate Research Assistant <i>University of Illinois, Urbana-Champaign</i> <i>Nuclear, Plasma, and Radiological Engineering</i>	mobile: (636) 284-9691 e-mail: gtw2@illinois.edu
MS	<b>University of Illinois at Urbana-Champaign, NUCLEAR ENGINEERING</b> <ul style="list-style-type: none"><li>• Thesis: Diversion Detection of Pyroprocessing with Cyclus</li><li>• Advisor: Professor Kathryn D. Huff</li></ul>	<b>Aug 2019</b>
BA	<b>Missouri University of Science and Technology, NUCLEAR ENGINEERING</b>	<b>May 2017</b>
RESEARCH EXPERIENCE	<b>University of Illinois at Urbana-Champaign, Urbana, IL</b> <i>Graduate Research Assistant, Advanced Reactors and Fuel Cycles Group</i> <ul style="list-style-type: none"><li>• Fuel Cycle Simulation with Cyclus Simulator.</li><li>• Modeling a pyroprocessing facility using C++.</li><li>• Analyzing results with diversion detection algorithms.</li></ul> <b>Washington University - St. Louis, St. Louis, MO</b> <i>Data Analyst, Radiology Department</i> <ul style="list-style-type: none"><li>• Conducted proton dosimetry experiments.</li><li>• Gained experience in a medical research environment.</li><li>• Utilized Matlab for image processing.</li></ul>	<b>Nov 2017 – Present</b>         <b>May 2016 – Aug 2016</b>
RESEARCH INTERESTS	Advanced reprocessing and fuel cycles, non-proliferation, nuclear fuel cycle analysis, scientific computation.	
HONORS AND AWARDS	Graduated MST Summa Cum Laude Nuclear Science Design Team – Vacuum Group Lead Kappa Mu Epsilon – Member	<b>May 2017</b> <b>Jan 2016 – May 2017</b> <b>Aug 2015 – May 2017</b>
REFEREED CONFERENCE ABSTRACTS	<p>[1] <b>Westphal, G.</b>, Huff, K. “PyRe: A Cyclus Pyroprocessing Facility Archetype”, <b>Transactions of the American Nuclear Society Winter Conference</b>. Orlando, FL, November 2018.</p> <p>[2] <b>Westphal, G.</b>, Huff, K. “Signatures and Observables of the Nuclear Fuel Cycle”, <b>University Program Review</b>. Ann Arbor, MI, June 2018.</p> <p>[3] <b>Westphal, G.</b>, Huff, K. “Signatures and Observables of the Nuclear Fuel Cycle”, <b>Consortia for Non-proliferation Enabling Capabilities Review</b>, Raleigh, NC, January 2018.</p>	
TEACHING EXPERIENCE	<b>University of Illinois at Urbana-Champaign</b> DEPT. OF NUCLEAR, PLASMA, AND RADIOLOGICAL ENGINEERING <i>NPRES 451, Radiation Lab</i>	<b>Fall 2017</b>
SKILLS	<b>Programming</b>	bash, C++, Python, XML, SQL, nose, git, L <sup>A</sup> T <sub>E</sub> X, Mathematica, MatLab