

Personal Information
Address: 613 N. Midvale Blvd Apt 2
Madison, WI 53705
Phone: (724) 875-8231
Email: cdangelo27@gmail.com

CHELSEA D'ANGELO

Work Information
Address: 1500 Engineering Dr.
Madison, WI 53706
Email: cadangelo@wisc.edu

EDUCATION

EXPECTED FEB 2019	Ph.D., Nuclear Engineering & Engineering Physics, University of Wisconsin-Madison
DEC 2014	M.S., Nuclear Engineering & Engineering Physics, University of Wisconsin-Madison, GPA: 3.85
MAY 2011	B.S., Chemical Engineering, University of Pittsburgh, Major GPA: 3.67, Cumulative GPA: 3.21

WORK & RESEARCH EXPERIENCE

University of Wisconsin - Madison, 1500 Engineering Dr., Madison, Wisconsin, 53705

AUG 2012 - PRESENT	Graduate Research Assistant: Computational Nuclear Engineering Research Group <ul style="list-style-type: none">• Thesis topic: Automated Monte Carlo variance reduction for multi-physics processes occurring in dynamic systems• Developed topology restoration tool to prepare polygon-mesh computational phantoms for radiation transport simulations [Pub. 1]• Collaborated with NASA to perform Fluka simulations of radiation environment on Mars• Performed 3D neutronics analysis of the ARIES-ACT2 experimental fusion energy device [Pub. 3]• Compared unstructured mesh capabilities of MCNP6 and DAGMCNP [Pub. 4]
--------------------	---

Los Alamos National Laboratory, P.O. Box 1663, Los Alamos, New Mexico, 87545

MAY 2011 - JULY 2012	Post-Bachelor's/Graduate Research Assistant: W-13: Advanced Engineering Analysis <ul style="list-style-type: none">• Tested new features of the unstructured mesh capability of MCNP6 [Pub. 6]• Created training material for generating unstructured mesh models with Abaqus/CAE• Performed radiation transport analysis on unstructured mesh models of weapons systems• Assisted with experiment setup and maintenance and performed MCNP6 calculations in support of experiments in the Ion Beam Materials Lab [Pub. 7 and 8]• Obtained Department of Energy Q-level security clearance
MAY 2010 - AUG 2010	Undergraduate Intern: XCP-3: Monte Carlo Codes <ul style="list-style-type: none">• Created benchmark-type problems for verification and validation of the use of Abaqus/CAE unstructured mesh geometries with MCNP6 [Pub. 9]

COMPUTER SKILLS

Programming Languages	Physics Codes	Software Toolkits	Mesh Generation & Visualization	Version Control & Publishing
C++ BASH PYTHON MATLAB FORTRAN	MCNP FLUKA PARTISN ALARA	DAGMC PYNE MOAB	ABAQUS/CAE CUBIT/TRELIS VISIT PARAVIEW	GIT LATEX MICROSOFT OFFICE

PUBLICATIONS

1. [ans_2017](#)
2. [nair](#)
3. [aries](#)
4. [ans_2013](#)
5. [fy12](#)
6. [mcnp6_um](#)
7. [mst1](#)
8. [mst2](#)
9. [uga](#)

REFERENCES

Name	Dates	Location	Email	Phone
Advisors				
Paul Wilson	Sept. 2012 - Present	UW	wilsonp@engr.wisc.edu	608-263-0807
Steve McCready	May 2011 - Present	LANL	mccready@lanl.gov	505-665-6991
Karen C. Kelley	May 2011 - Present	LANL	corzine@lanl.gov	505-667-8843
Roger Martz	May 2010 - Aug 2010	LANL	martz@lanl.gov	505-664-0900

Co-workers

Andrew Davis	Sept. 2012 - Present	UW-Madison	andrew.davis@wisc.edu
Kalin Kiesling	Jan. 2014 - Present	UW-Madison	kkiesling@wisc.edu
Casey Anderson	May 2010 - July 2012	LANL	casey_a@lanl.gov
Matthew Gonzalez	May 2010 - Aug. 2010	LANL	gonzo1912@gmail.com