

JENNIFER JO COY

PROFESSIONAL EXPERIENCE

Ball State University, Muncie, Indiana	2021 – present
• Chair, Department of Computer Science	2021 – present
• Associate Professor, Computer Science	2021 – present
Anderson University, Anderson, Indiana	2014 – 2021
• Interim co-Director, Center for Security Studies and Cyber Defense	2020 – 2021
• Chair, Department of Computer Science	2016 – 2021
• Professor, Computer Science and Physics	2017 – 2021
• Associate Professor, Computer Science and Physics	2014 – 2017
Saint Joseph’s College, Rensselaer, Indiana	2004 – 2014
• Chair, Department of Earth and Space Sciences	2011 – 2014
• Associate Professor, Physics and Computer Science	2011 – 2014
• Assistant Professor, Physics	2005 – 2011
• Adjunct Professor, Physics and Core	2004 – 2005
Wabash College, Crawfordsville, Indiana	Spring 2001
• Visiting Assistant Professor, Physics	
Purdue University, West Lafayette, Indiana	1997 – 2004
• Graduate Student Instructor, General Physics I & II, Summer Semesters	2000 – 2004
• Graduate Student Lab Assistant, Fall & Spring Semesters	1997 – 2004

EDUCATION

Purdue University, West Lafayette, Indiana	
• Doctor of Philosophy, Physics	2006
Dissertation: “ <i>Dark Matter or New Physics: A Direct Comparison among Competing Explanations of Galactic Rotation Curves</i> ”	
• Master's Degree, Physics	2000
University of Toledo, Toledo, Ohio	
• Bachelor's Degree, Computer Science and Engineering, Honors, <i>magna cum laude</i>	1997
• Bachelor's Degree, Engineering Physics, Minor in Astrophysics	1997

PUBLICATIONS AND PRESENTATIONS

- Coy, J. J., Largent, D. L., "*Mind the Gap! Searching Data for Retention Challenges*", Original Lilly Conference on College Teaching, Miami University, Miami, Ohio, peer-reviewed/refereed, National. (November 18, 2022).
- Gestwicki, P. V., Coy, J., Largent, D. L., "*The Forms and Uses of Undergraduate Student Game Design Logs*", International Conference on Meaningful Play, Michigan State University, East Lansing, MI, peer-reviewed/refereed, Regional. (October 13, 2022).
- Gundlach, J. H., Schlamminger, S., Spitzer, C. D., Choi, K.-Y., Woodahl, B. A., Coy, J. J., Fischbach, E. Physical Review Letters, v 98, n 15, 13 April 2007, p 150801/1-3. "*Laboratory test of Newton's second law for small accelerations.*"
- I. Shipsey, J. Coy, and B. MacCall, *Introductory Astronomy Lab Manual*, Sixth Edition, McGraw-Hill, New York, 2005, 2004, 2002, 2001.

SELECTED STUDENT RESEARCH PROJECTS

- Stephanie Maynard, Conner Page, Michael Hudson Shimanyula, and Joy Shaffer, "*Fairmount Camp: Camp Registration and Form Processing*", Anderson University Scholars' Day poster presentation, Department of Computer Science, 2020.
- Matthew Gordon, Samita Neupane, Apekshya Koirala, and Ally Wallace, "*TRI-S: Online Registration and Billing*", Anderson University Scholars' Day poster presentation, Department of Computer Science, 2020.
- Davis Peterson and James Robinson, "*Investigating Development of Autonomous Vehicles with Computer Vision*", Anderson University Scholars' Day poster presentation, Department of Computer Science, 2020.
- Carson Barteau, Katherine Bixler, Tyler Cooper, Madeline Pleninger, Lauren Simpson, Alexander Standlee, J.J. Miller, and Walter Weaver, "*VXMLFLOW: Agile Software Development*", Anderson University Scholars' Day poster presentation, Department of Computer Science, 2019.
- Jeshua Cooper, Nathan Dunn, Matt Harter, Kaleb Weddle, and Brian Schultz, "*Proof-of-concept Prototype for Automated Search of Connected Drives for Image Files, with Ability to Manually Tag Suspicious Files*", Anderson University Scholars' Day poster presentation, Department of Computer Science, 2017.

SELECTED GRANTS

Center for Security Studies and Cyber Defense , \$1,000,000	2020
<ul style="list-style-type: none">• Co-lead on planning team, Lilly Endowment Charting the Future of Indiana Colleges and Universities	
Women in Computing: Leadership and Outreach , \$12,230	2018
<ul style="list-style-type: none">• Principal Investigator, NASA/INSGC	
STEM Immersion Summer Camp , \$15,000	2016
<ul style="list-style-type: none">• Co-Principal Investigator, NASA/INSGC	

SELECTED UNIVERSITY SERVICE

- Academic Technology Advising Committee, Chair** 2015 – 2021
- Lead a diverse team of faculty and staff to advise the Provost on technology related to effective teaching.
- National Security Studies Program Committee** 2015 – 2021
- Supervise the curriculum of both the national security major and the cybersecurity major.
- Physical Sciences and Engineering ABET Accreditation Group** 2015 – 2021
- Assist in the design of the ABET assessment report for the Computer Engineering, Electrical Engineering, and Mechanical Engineering majors, participate in the ABET site visit for accreditation.
- Strategic Planning Stewardship Team** 2016 – 2018
- Served as one of the members of the team charged with the oversight of the strategic planning process.
- Advising Model Working Group** 2015
- Participated in the development of a set of revised guidelines for university advising.

SELECTED INVITED LECTURES

- *Science Evening Lecture Series: The Birth and Life of Stars* (at Anderson University) 2016
- *What is Quantitative Literacy?* (at Saint Joseph's College) 2016
- *Panel on Careers in Teaching, APS Conference* (at Purdue University) 2015
- *Science Evening Lecture Series: Computer Science is Changing the World* (at Anderson University) 2015

PROGRAMMING LANGUAGES AND TECHNICAL SKILLS

- Languages: C, C++, Java, JavaScript, MIPS Assembly Language, ML, Prolog, Python, Ruby.
- Frameworks: Django, Node.js, Rails, React.js.
- Facilitated classroom Agile Scrum teams in multiple courses.

PROFESSIONAL ORGANIZATIONS, CERTIFICATIONS, AND CONFERENCES

- Member, Association for Computing Machinery
- Certified Ethical Hacker, EC-Council, 2019-2022.
- Affiliate Director for INSGC at Anderson University, a member of the Indiana Space Grant Consortium, 2014-2018.
- Affiliate Director for INSGC at Saint Joseph's College, a member of the Indiana Space Grant Consortium, 2012-2014.
- Attended the Women in Cybersecurity Conference 2020 (Virtual), 2019 (Pittsburg), and 2018 (Chicago), with several students, each receiving a scholarship from WiCyS.
- Attended Indy.Code() 2019, Indianapolis, bringing several students sponsored by an INSGC grant.

COMMUNITY SERVICE AND OUTREACH

- Invited judge for the 2016 - 2022 Congressional App Challenge, Fifth District, a nationwide competition for high school students to enhance interest in Computer Science.
- Invited member of the 2016, 2017, 2020 XTern Selection Committee, a non-profit group with a mission to support technical talent within Indiana.
- Invited speaker at Westfield High School computer science classes, discussing careers in Computer Science, 2016.
- Invited speaker at Alexandria-Monroe High School Career Day, discussing careers in University teaching, 2016.
- Conner Prairie Passport to HiTech, 2016. Designed and conducted an activity table for investigating renewable energy through solar and wind power, aimed at a target audience of elementary school girls. Attendance at the event exceeded 1000.
- Life Member, Alpha Phi Omega, a co-ed service fraternity.