

## JENNIFER M. NASH

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### PERSONAL STATEMENT

I am passionate about optimizing teaching and learning in online education settings. Recent interests include integrating the Universal Design for Learning Framework into online instruction, researching the lived experiences of adults enrolled in an online teacher apprenticeship program, and leveraging technology for learning for learners.

### EDUCATION

1999-2004            Ph. D. Pharmacology  
University of Minnesota, Minneapolis, MN

1992-1996            B.S. Biology, *magna cum laude*  
Minnesota State University, Mankato, MN

### CAREER SUMMARY

2020 – current        Remote Associate Professor, College of Education  
Dakota State University, Madison SD  
Since the 2020/21 academic year, teaching responsibilities have included exclusively online instruction of the following courses: K-8 social studies methods; K-8 and 7-12 science methods; earth and physical science content course for elementary and middle level pre-service teachers; middle school practicum for preservice teachers; math/science technology (STEM) integration course for pre-service teachers; graduate STEM courses for in-service teachers; introductory practicum for education majors; computer teaching & learning for education majors; introduction to education for education majors. Also, assisted other DSU faculty with the online offering of a human relation course and educational assessment course for education majors.

2005 to 2020        Assistant Professor, Tenure and Associate Professor (2011)  
Dakota State University, College of Education, Madison, SD  
Teaching responsibilities have included online and face-to-face and online instruction of the following courses: K-8 and 7-12 science methods; earth and physical science content course for elementary and middle level pre-service teachers; middle school practicum for preservice teachers; math/science technology (STEM) integration course for pre-service teachers; graduate STEM courses for in-service teachers.

1996-1999                      Research Technician  
 Mayo Clinic, Dept. of Physiology and Biophysics, Rochester, MN

## PUBLICATIONS

Schuh, M., Nash, J., Young, R., & De Jong, D. (In press, Winter 2025). A teacher apprenticeship pathway in a rural, Midwest state. *AASA Journal of Scholarship and Practice*.

McKay, S., Geary, M., Maloney, J., Nash, J. & Geary, J. (2019). Rocket Roundup. In K. Graziano (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 101-107). Las Vegas, NV, United States: Association for the Advancement of Computing in Education (AACE). Retrieved October 15, 2019 from <https://www.learntechlib.org/primary/p/208488/>

J.M. Nash. Using Universal Design for Learning in Online Instruction. *Online Classroom Newsletter* 18(6): 2-3, 2018.

J.M. Gross (Nash). Pre-service Teachers Learn to Teach Science Using Picture Books. *South Dakota Reading Council Journal* IV(1): 8-11, 2009.

J.M. Gross (Nash) and D. Yee. Review Article: The type-1 IGF receptor tyrosine kinase and breast cancer: Biology and therapeutic relevance. *Cancer Metastasis Review* 22(4): 327-336, 2003.

J.M. Gross (Nash) and D. Yee. How does the estrogen receptor work? *Breast Cancer Research & Treatment* 4(2): 62-64, 2002.

Y. Wang, T.J. Berndt, J.M. Gross (Nash), M.A. Peterson, M.J. So, and F.G. Knox. Effect of inhibition of MAO and COMT on intrarenal dopamine and serotonin and on renal function. *American Journal Physiology* 280(1): R248-54, 2001.

J.M. Gross (Nash), T.J. Berndt, and F.G. Knox. Effect of serotonin receptor antagonist infusion on phosphate excretion. *Journal American Society Nephrology* 11(6): 1002-7, 2000.

A.C. Pflueger, T.S. Larson, K.A. Nath, B.F. King, J.M. Gross (Nash), and F.G. Knox. Role of adenosine in contrast media-induced acute renal failure in diabetes mellitus. *Mayo Clinic Proceedings* 75(12): 1275-83, 2000.

J.M. Gross (Nash), J.E. Dwyer, and F.G. Knox. Natriuretic response to increased pressure is preserved with COX-2 inhibitors. *Hypertension* 34: 1163-1167, 1999.

A.C. Pflueger, J.M. Gross (Nash), H. Osswald, and F.G. Knox. Adenosine-induced renal vasoconstriction in diabetes rats: role of prostaglandins. *American Journal Physiology* 277(46): R1410-R1417, 1999.

## CONFERENCE PRESENTATIONS

M.N. Schuh and J.M. Nash. "The Lived Experiences of Rural, Undergraduate Students Enrolled in an Online Teacher Apprenticeship Education Program", DSU Research Week Symposium, March 20, 2025.

J.M. Nash and M.N. Schuh. "Active Learning with Tech", DSU Teach Camp Conference, June 2024.

K. Anderson and J.M. Nash. "Fostering Literacy Together: Family and School Connections", Technology in Education and Innovation (TIE) Conference, Sioux Falls, SD, April 2024.

J.M. Nash. "Add Learner Choice to Online Learning", Technology in Education and Innovation (TIE) Conference, Rapid City, SD, April 2024.

J.M. Nash, and M. Schuh. "Going on a Goose Chase", Technology in Education and Innovation (TIE) Conference, SD, April 2022.

J.M. Nash, and B. Hoek. "Teaching Science Remotely Using Nearpod", Technology in Education and Innovation (TIE) Online Conference, SD, April 2021.

J.M. Nash. "Designing STEM Learning Using the BSCS 5E Instructional Model", Hawaii University International Conference for Science, Technology, Engineering, Art, and Mathematics and Education, Honolulu, HI, June 2019.

M. Blake and J.M. Nash. "Dumpster Dive of Technology Tools", Technology in Education and Innovation (TIE) Conference, Sioux Falls, SD, April 2018.

J.M. Nash and K. Anderson. "Technology Supports for Content Literacy in Science", Technology in Education and Innovation (TIE) Conference, Rapid City, SD, April 2017.

J.M. Nash and M. Blake. "Technology Supports for Science and Social Studies", Technology in Education and Innovation (TIE) Conference, Sioux Falls, SD, April 2016.

J.M. Nash and C. Olson. "Exploring Accessibility Features", Technology in Education and Innovation (TIE) Conference, Sioux Falls, SD, April 2016.

J.M. Nash and V. Sterling. "Technology Supports for Reading Comprehension", Technology in Education and Innovation (TIE) Conference, Sioux Falls, SD, April 2014.

J.M. Nash, V. Sterling, and C. Pauli. "Strategically Plan the Development of Comprehension Skills in Content Areas." 58<sup>th</sup> Annual International Reading Association Convention, San Antonio, TX, 2013.

J.M. Nash, V. Sterling, and C. Pauli. "Celebrate Science and Social Studies by Strengthening Reading." 57<sup>th</sup> Annual International Reading Association Convention, Chicago, IL, 2012.

J.M. Nash and V. Sterling. "Reading Supports in the Content Area". South Dakota Reading Council Conference, Sioux Falls, SD, July 2011.

J.M. Nash, D. Wiken, and V. Sterling. "Content Area Reading Using Thinkfinity". South Dakota Reading Council Conference, Rapid City, SD, October 2010.

D. Wiken, J.M. Nash, and V. Sterling. "Integrating Photo Story to Support the Curriculum". South Dakota Reading Council Conference, Rapid City, SD, October 2010.

J.M. Gross (Nash), D. Wiken, and V. Sterling. Four-hour in-depth session: "Plan Interdisciplinary Lessons with the Support of Thinkfinity", Technology in Education and Innovation (TIE) Conference, Sioux Falls, SD, April 2010.

J.M. Gross (Nash), D. Wiken, and V. Sterling. "Exploring Thinkfinity", Technology in Education and Innovation (TIE) Conference, Sioux Falls, SD, April 2010.

J.M. Gross and A.J. Rook. "No Child Left Inside", National Science Teacher Association Regional (NSTA) Conference, Minneapolis, MN, October 2009.

J.M. Gross (Nash), D. Wiken, and V. Sterling. Four-hour in-depth session: "Plan Interdisciplinary Units with the Support of Thinkfinity", Technology in Education and Innovation (TIE) Conference, Rapid City, SD, April 2009.

J.M. Gross (Nash) and V. Sterling. "Let Your Science Grow with Reading Strategies". South Dakota Reading Council Conference, Pierre, SD, August 2008.

J.M. Gross (Nash), V. Sterling, D. Wiken, G. Midland, and M. Geary. Four-hour in-depth session: "Interdisciplinary Units with a Twist of Technology", Technology in Education and Innovation (TIE) Conference, Sioux Falls, SD, April 2008.

J.M. Gross (Nash) and D. Yee. "Translational regulation of estrogen-mediated gene expression by IGF-I in MCF7 breast cancer cells", Second International GH-IGF Symposium, Cairns, Australia, May 2004.

## GRANTS

2024/25 Faculty Research Initiative Award

Dakota State University

One time amount of \$5,000

Project Title: "The Lived Experiences of Rural, Undergraduate Students Enrolled in an Online Teacher Apprenticeship Education Program"

I was a Co-Principal Investigator of this project. The project's goal is to uncover the lived experiences of first semester of undergraduate students enrolled in the Teacher Apprenticeship Education Program.

2019-2023 South Dakota EPSCoR Track I Sub-award

National Science Foundation

Annual amount of approximately \$10,000 per year

The project's goal is to promote educational opportunities and workforce development in areas related to science, engineering, technology, and mathematics. My role in the project is mentor undergraduate education majors to develop to develop K-12 curriculum related to the research topics of the Track I award.

2014-2019 South Dakota EPSCoR Sub-award

National Science Foundation

Annual amount of approximately \$150,000 per year

I am the Campus Coordinator of this subaward. The project's goal is to promote educational opportunities

and workforce development in areas related to science, engineering, technology, and mathematics by providing professional development to K-12 preservice and in-service teachers, and by providing online undergraduate computing courses with enhanced accessibility options to high school students.

#### 2017 Faculty Mini Innovation Grant

Dakota State University

One-time amount of \$1000

I am the Principal Investigator of this project. The project's goal is to improve STEAM education preparation of DSU undergraduate education majors.

#### 2016 Faculty Mini Innovation Grant

Dakota State University

One-time amount of \$3225

I was the Principal Investigator of this project. The project's goal was to improve STEAM education preparation of DSU undergraduate education majors.

#### 2012-2013 Education Project

Interlakes United Way

One time amount of \$800

Project Title: "Helping Children Comprehend Science and Social Studies Text"

I was a Co-principal Investigator of this project. The project's overall goal was to improve reading comprehension of science and social studies text in 90 third grade children at a local elementary school.

#### 2008 No Child Left Inside Grants Award Program

South Dakota Department of Game, Fish, and Parks

One time amount of \$1000

Project Title: "A Buggerrific Adventure"

I was the Project Director of this project. The project's overall goal was to train elementary teachers at a local school to utilize their natural environment to teach science while implementing digital microscopy and other technological tools into lessons.

#### 2007 Title II No Child Left Behind Competitive Subgrant

South Dakota Department of Education

One-time amount of \$50,000

Project Title: "Interdisciplinary Approaches to Teaching Inquiry Based Science"

I was a Co-principal Investigator of this project. The project's overall goal was to train middle-level and secondary math and science teachers how to implement technology and apply topics of disease and pharmacology into science lessons.

#### 2004 Student Travel Award

Second International GH-IGF Symposium, Cairns, Australia

One-time amount of \$2000

Poster Presentation title: "Translational regulation of estrogen-mediated gene expression by IGF-I in MCF7 breast cancer cells".

#### 2001-2004 Pre-doctoral Traineeship Award

USAMMC Department of Defense

Annual direct amount of \$22, 000 per year

Project title: “IGFBP-1 interacts with integrins to inhibit IGF-induced breast cancer growth and migration”. I was the principle investigator of this project. The project’s overall goal was to provide preclinical data for the use of IGFBP-1 as a therapy for breast cancer.

### **GRANT PROPOSALS (not funded)**

2017 SD Department of Education–Education/Workforce Development Grant Proposal, “Improving Science Instruction and Infrastructure”, one time amount of \$30,000, University collaborator with Crazy Horse High School, Wanblee, SD.

2016 SD Department of Education–Education/Workforce Development Grant Proposal, “LittleBits in the Classroom”, one time amount of \$7000, University collaborator with Madison Middle School, Madison, SD.

2016 NSF 15-509 DCL proposal, “Promoting STEM among Preservice Teachers and Students with Learning Disabilities, 3-year \$265,553 project, Principal Investigator.

2015 Larson Family Foundation Grant Proposal, “Empowering Exceptional Children and Supporting Teachers in STEM Education”, one time amount of \$63,051, Principal Investigator.

2015 NSF 15-599 ITEST Proposal, “Exceptional Children Exploring Interests in Science and Technology”, 3-year \$357,301 project, Principal Investigator.

### **MENTORED UNDERGRADUATE RESEARCH PROJECTS**

Bree Hoekman and Anna Koisti, “Teaching Science Remotely Using Nearpod”, Dakota State University, 2020-2022

Ashley Wiley, “Reading Comprehension in Third”, Dakota State University Student Research Initiative, 2013.

Alexandra Rook, “Buggerific Technoterrific Third Grade Teaching Project”, Dakota State University Student Research Initiative, 2009.

Kindra Baan Hoffman, “Reading Attitudes of DSU Students”, Dakota State University Student Research Initiative, 2007 and 2008.

### **PROFESSIONAL CONTRIBUTIONS**

- Learner, ACUE’s Effective Teaching Practice Framework course series, 2025.
- Co-presenter, SD State Educators Rising Conference for high school students, “Teach Like a Pirate”, February 2025, co-presented with M. Schuh.
- Co-presenter, DSU Education Expo Ed Rising Conference for high school students, “Going on a Teacher GooseChase”, October 8, 2024, with M.S. Schuh.
- NSTA National Conference Reviewer for conference years 2024, 2023.
- Co-presenter, DSU Education Expo Ed Rising Conference for high school students, “Going on a Teacher GooseChase”, October 7, 2023, with M.S. Schuh.
- SD EPSCoR SEED Grant Reviewer, August 2021.

- Online Co-facilitator for the online conference & associated graduate course, DSU Teach Camp for 318 teachers, June 2020, <https://dsu.edu/teachcamp>.
- Online facilitator for DSU College of Education Remote Learning Sessions for Teachers, the online May, 2020, <http://dsuteach.weebly.com/remote-learning.html>.
- Co-presenter, SD State Educators Rising Conference for high school students, “Is an Elementary Education degree for me?”, February 2020, co-presented with M. Blake.
- Invited Speaker, Elevating and Celebrating Effective Teaching and Teachers Conference (ECET<sup>2</sup>), “Informational Text 101”, March 2019, co-presented with M. Blake.
- Invited Speaker, Elevating and Celebrating Effective Teaching and Teachers Conference (ECET<sup>2</sup>), “Universities and Schools: Like Peas and Carrots”, March 2018, co-presented with M. Blake.
- Presenter, SD Educators Rising Conference for high school students, “Using Books to Teach Science”, February 2019.
- Invited Speaker, Douglas School District Professional Development Day, “Create Authentic Experiences Using the Engineering Design Process”, March 2018.
- Conference Co-director, DSU STEAM Camp for 100 teachers, June 2016-2017.
- Reviewer of Aspirations in Computing Awards for North Dakota & South Dakota, National Center for Women & Information Technology, since 2016.
- Co-facilitator, Hour of Code at Madison Elementary School, December 2015.
- Invited Speaker, West Central Winter Symposium 1-Hour Teacher In-service, “Exploring Accessibility Features”, January 2016.
- Invited Science Facilitator, Cedar Canyon Kids Camp, Rapid City, SD, 2014-2017.
- Science Fair Judge, Madison Middle School, 2014-2017.
- Secretary, Prairie Valley Reading Council (local chapter of the International Reading Association), 2 year term from 2011-2012.
- Invited Speaker, Madison Rotary Club, July 2010.
- Lead Facilitator, South Dakota Operation Military Kids Madison Event, April 2010.
- Invited Speaker, Delta Kappa Gamma, April 2010.
- Invited Speaker, Prairie Reading Council (local chapter of the International Reading Association), 2009-2015/
- Invited Facilitator, Madison Middle School 3-Hour Teacher In-service, October 2009.
- Program Director, Camp Invention, 2007-2009, and Teacher, 2014-2016.
- Lead Facilitator, Sanborn Central School District Science Day, January 2008.
- Advanced Field Trainer, Verizon Thinkfinity, 2008-2012.

## **UNIVERSITY AND INSTITUTIONAL SERVICE**

- Team Lead, DSU Education Expo Ed Rising Conference for the years of 2025, 2024, 2023.
- Member, Implementation Council, 2024/25.
- Member, Intellectual Property Committee, 2024/25.
- Member, Task Force for Shared Computer Course, 2023/24.
- Member, Institutional Review Board Committee, 2022-2024.
- Member, Workload Committee, Spring of 2024.
- Appointed Member, Dakota State University Promotion and Tenure Committee, 1-year terms, 2020, 2021, 2022, 2023.
- Member and Writer, CAEP (Council for the Accreditation of Educator Preparation) Accreditation Report Committee, 2020-2022. Co-responsible for Standard 4: Program Impact.

- Writer, State Accreditation Report, 5-12 Biology Education, 2021.
- Member, Barrier Free Learning Committee, since 2019.
- Member, Policy Committee, 2021-2023.
- Member, Council for the Accreditation of Educator Preparation Committee (CAEP), since summer 2020. Duties include writing the report for the 2021 CAPE accreditation of DSU Teacher Education Programs.
- Member, Dissertation Committee of Pam Rowland, Dakota State University Doctor of Science in Information Systems, "The CybHER Program Supported by CISSE Framework to Engage and Anchor Girls in Cybersecurity, defended March of 2018.
- Elected Member, Dakota State University Promotion and Tenure Committee, 3-year term, 2016-2019.
- Appointed Member, Dakota State University Promotion and Tenure Committee, 2020-2023.
- Member, Dakota State University Master Academic Plan Taskforce, 2016-2017.
- Faculty Representative, Dakota State University Institutional Review Board, 2015-2019, and 2022.
- Graduate Assistant Supervisor, MSET student, Fall 2015/Spring 2015.
- Co-Facilitator, Education Expo for prospective undergraduate students, 2015-2020.
- Member, Dakota State University Scholarship Committee, 2014 - 2021.
- Chair, Dakota State University Search and Screen Committee, 2014.
- Member, Dakota State University GS100 Strengths Quest Task Force, 2012-2014.
- Member, Dakota State University Secondary Education Coordinating Committee since 2005.
- Coordinator, Dakota State University Specialty Program Assessment for Biology Education since 2005.
- Member, Dakota State University College of Education Assessment Coordinating Committee since 2008.
- Member, Dakota State University Professional Education Council since 2007.
- Member, Dakota State University Graduate Council, 2008-2010.
- Member, Dakota State University Woman's Day Committee, 2008-2015.
- Member, Dakota State University Curriculum Committee, 2011-2014
- Member, Dakota State University Publication Task Force, 2011.
- Member, Dakota State University Institutional Effectiveness Committee, 2005-2010.
- Member, Dakota State University Academic Quality Improvement Program Team, 2007-2009.
- Faculty Adviser, Dakota State University Student Chapter of the South Dakota Educator Association, 2007-2014.
- Member, Dakota State University Standards Document Task Force, 2009.
- Member, Dakota State University Search and Screen Committees, 2005, 2010, 2015 (Biology, Exercise Science, Dean of Graduate Studies).
- Member, Dakota State University Research Committee, 2007-2009.
- Member, Dakota State University Faculty Awards Committee, 2006, 2011, 2012, 2014, 2015, 2018.
- Facilitator, Dakota State University Forensic Science High School Workshop, 2006.
- Member, Dakota State University Pandemic Flu Preparation Committee, 2006.

## PROFESSIONAL HONORS

**2017 DeWayne Mork Award for Excellence in Service.** This annual award is given to a faculty member of Dakota State University to recognize excellence in service to the university and community. Faculty members are nominated by their peers.

**2010 South Dakota Verizon Thinkfinity Trainer of the Year.** This honor was shared between myself and three other Dakota State University colleagues. We were awarded this honor in recognition of using Verizon Thinkfinity web resources to prepare over 100 current and future K-12 teachers in the use of 21st century classroom skills.

**2010 DeWayne Mork Award for Excellence in Service.** This annual award is given to a faculty member of Dakota State University to recognize excellence in service to the university and community. Faculty members are nominated by their peers.

**April 2009 South Dakota Verizon Thinkfinity Field Trainers of the Month.** This honor was shared between myself and two other colleagues. We were awarded this honor in recognition of a four-hour training session that taught current K-12 teachers how to implement Verizon Thinkfinity web resources into their classrooms.