

*Curriculum Vitae*  
**Sarah Rae Sletten**

Associate Professor of Biomedical Science, University of North Dakota  
VP of People and Culture, Thread

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LinkedIn: [Sarah Sletten](#)

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**Education**

**Doctor of Philosophy**, Teaching and Learning: Higher Education

*University of North Dakota, Grand Forks, North Dakota*

Research Interest: Science pedagogy, flipped classrooms, technology integration, blended learning, online learning, active learning, student motivation

Dissertation: *Investigating flipped learning: Post-secondary student self-regulated learning, perceptions, and achievement.*

(Dec 2015)

**Master of Science**, Microbiology and Immunology

*University of North Dakota, Grand Forks, North Dakota*

Research Interest: West Nile Virus avian and human therapeutics,

Thesis: *Anti-West Nile Virus antibodies provide protection from WNV infection: Protective antibodies recognize diverse WNV proteins.*

(Dec 2009)

**Bachelor of Science**, Biology Education

*University of Mary, Bismarck, North Dakota*

Focus: Secondary education

(Dec 2006)

**Associate of Science**, Medical Lab Science

*Bismarck State College, Bismarck, North Dakota*

Focus: Clinical lab science

(Dec 2001)

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**Higher Education Experience**

**Associate Professor of Biomedical Sciences** (Undergraduate and Graduate Teaching Faculty) University of North Dakota, Grand Forks, ND

Courses: Introduction to Medical Microbiology/Lab; General Microbiology/Lab; Introduction to Immunology; Peer Teaching  
(Aug 2017 – present)

**Director of Learner Research** (Medical Teaching Faculty) University of North Dakota, Grand Forks, ND

Courses: Research Experience for Medical Students; Research Electives

Responsibilities: facilitating research experiences for medical students; engagement with research committee; directing MD/PhD program

(May 2021 - May 2022; Aug 2023 - Present)

**Assistant Professor of Biology**, Mayville State University, Mayville, ND

Courses: Concepts of Biology/Lab (face-to-face); General Biology I/Lab (face-to-face, online); General Biology II/Lab (face-to-face, online); Immunology (face-to-face, online); Natural Science Lab (face-to-face); Microbiology/Lab (face-to-face)  
(2010-2017)

**STEM Education Coordinator**, Mayville State University, Mayville, ND

Courses: STEM Teaching Strategies (hybrid); Technology in Education (face-to-face, online)  
Responsibilities: planning and organizing STEM professional development courses for K-12 teachers; project coordinator of Mathematics and Science Partnerships project; attend state and national meetings on STEM education; organize youth STEM activities; manage STEM budget; grant writing; interact with public; state STEM representative; public speaking engagements  
(2010-2017)

**Master of Arts in Teaching**, Mayville State University, Mayville, ND

Responsibilities: serve as university supervisor for MAT students placed in science clinical experiences  
(Jan 2016-present)

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**Adult Training & Development Experience**

**VP of People and Culture**, Airtonomy/Thread, Grand Forks, ND

Responsibilities: lead all areas of People Operations for a series A start-up SaaS company  
(Jun 2022-Present)

**Learning and Development Consultant**, Airtonomy, Grand Forks, ND

Responsibilities: provide guidance and assistance on work culture and human capital for a growing start-up  
(Jan 2022-May 2022)

**Learning and Development Specialist**, Sanford Health, Fargo, ND

Responsibilities: teach General Orientation and the Intro to Sanford Computer System class for new hires  
(Dec 2016-Dec 2021)

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**K-12 Teaching Experience**

**Secondary Science Teacher**, Hatton High School, Hatton, ND

Courses: Life Science, Earth Science, Physical Science, Biology, Chemistry, Environmental Science for grades 7-12

Responsibilities: course and lab development, class advisor, prom advisor, special education meetings, recycling project leader  
(2008-2010)

**K-12 Substitute Teacher**, various schools in region  
(2007-2008)

**Upward Bound Science Teacher**, University of Mary, Bismarck ND

Courses: 7-12 Science including life, earth, and physical sciences  
(2006)

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**Clinical Laboratory Experience**

**Medical Laboratory Technician**

**Northwood Deaconess Heath Center** (Jul 2007-2012) Northwood, ND

**Sanford Hospital** (Dec 2008-Aug 2009) Mayville, ND

**Altru Hospital** (Dec 2006-Sep 2007) Grand Forks, ND

**Linton Hospital** (Aug 2004-Jul 2006) Linton, ND

**Meritcare Medical Center** (Feb 2002-Jul 2006) Fargo, ND

Responsibilities: Routine clinical testing of patient samples in both clinic and hospital settings, collection of patient blood samples

### COVID Laboratory Technician

**North Dakota Department of Health** (May 2020-July 2020) Bismarck, ND

Responsibilities: PCR testing for SARS-CoV-2

### Scholarly Work

#### Peer-reviewed Scholarship

Pandy, S., Bruns, H. A., Condry, D. L. J., Kleinschmit, A. J., Lal, A. **Sletten, S.**, Sparks-Thissen, R. L., Vanniasinkam, T., Taylor, T., Justement, L. B., and Elliott, S. L. (2022) Antigen and Immunogen: An Investigation into the Heterogeneity of Immunology Terminology in Learning Resources. *ImmunoHorizons*, 6(5), 312-323. DOI: <https://doi.org/10.4049/immunohorizons.2200004>

**Sletten, S.** (2021) Rethinking Assessment: Replacing Traditional Exams with Paper Reviews. *Journal of Microbiology & Biology Education*, 22(2), 1-4. DOI:10.1128/jmbe.00109-21

\* Nelson, A. E. & **Sletten, S. R.** (2021) Extended Stay Getaway. *National Center for Case Study Teaching in Science*. University at Buffalo, State University of New York. Available at: [https://sciencecases.lib.buffalo.edu/collection/detail.html?case\\_id=1160&id=1160](https://sciencecases.lib.buffalo.edu/collection/detail.html?case_id=1160&id=1160)

Blauvelt, R., Caraballo, T., Krieger, K., **Sletten, S.**, Gibson, T., Bennion C., Gilmore, P., Masson, L., Miller, S., & LaPrelle' Williams, V. (2018) CDC Science Ambassador Fellowship—Operation outbreak: Educational activities, activity 1. U.S. Department of Health and Human Services, CDC, Atlanta GA. Available at: <http://www.cdc.gov/flu/graphicnovel>

**Sletten, S.R.** (2017) Investigating flipped learning: Student self-regulated learning, perceptions, and achievement in an introductory biology course. *Journal of Science Education and Technology*, 26(3), 347-358. DOI:10.1007/s10956-016-9683-8

Lyman KJ, Hackney, KJ, Christensen B, Hanson TA, **Sletten S.** Kinesio Taping® as a low cost intervention to assist with quadriceps muscle recruitment during exercise countermeasures. *Kinesio Taping Association International Research*. 2016;2(1), 95-97.

**Sletten, S.** (2015) Sweet beets: Making sugar out of thin air. *National Center for Case Study Teaching in Science*. University at Buffalo, State University of New York.

**Sletten, S.** (2015) Investigating self-regulated learning strategies in the flipped classroom. *Society for Information Technology & Teacher Education International Conference*, 445-449.

#### Local, Regional, and National Presentations

**Sletten, S.** (2023, Feb) *Preparing the Workforce: Enrich Your Internship Program*. Session presented at Training Magazine 2023 Conference & Expo, Orlando, Florida.

L. Nichols MD, **S. Sletten PhD**, A. Haage PhD, J. Shabb PhD, B. Grove PhD, S. Tinguely MD (2022, April). Enhancing the general internal medicine clerkship through integration of basic sciences, faculty collaboration and the use of interactive platforms. Poster presentation at Society of General Internal Medicine Annual Meeting, Orlando, Florida.

- \*Melvin, M. Nelson, A. E., Warne, D., Porter, J. **Sletten, S.** (2021, Oct) Indians into Medicine: Native Educator University Research Opportunity. Poster presentation at the National Indian Education Association 2021 Convention and Trade Show, Omaha, Nebraska.
- Sletten, S.** and Norby, M. (2021, July) *Learning Through Challenges: Majors Microbiology Lab Redesign*. Session presented at 2021 American Society for Microbiology Conference for Undergraduate Educators (ASMCUE).
- S. L. Elliott, T. Vanniasinkam, H. Bruns, D. Condry, L. Justement, A. Kleinschmidt, A. Lal, J. Liepkalns, P. Mixer, T. Paustian, R. Pritchard, **S. Sletten**, R. Sparks-Thissen, R. Taylor, S. Pandey (2021, June). *Development and Validation of Fundamental Statements and Key Competencies for Undergraduate Immunology Education*. Poster presented at World Microbe Forum.
- Liepkalns, S., Kleinschmidt, A., Bruns, H., Condry, D., Dorsam, G., Elliott, S., Freier, D., Justement, L., Lal, A., Mixer, P., Pritchard, R., **Sletten, S.**, Sparks-Thissen, B., Taylor, R., Vanniasinkam, T., Wisenden, B., S. Pandey. (2020, July) *Undergraduate immunology fundamental statements and skills: Development of undergraduate curriculum guidelines for teaching immunology using Vision and Change as a framework*. Poster presentation at SABER Virtual National Meeting.
- \***Doyon, A.**, Said, A., Herrera, N., & Paul, G. (April 2021). *ND-ACES: Promoting retention & STEM success through research training groups*. Poster presented at ND EPSCoR 2021 State Conference, Virtual via Symposium by ForagerOne.
- \*Nelson, A. E., Warne, D., Porter, J. **Sletten, S.** (2019, Oct) Indians into Medicine: Native Educator University Research Opportunity. Poster presentation at the National Indian Education Association 2019 Convention and Trade Show, Minneapolis, Minnesota.
- Sletten, S.** (2019, Aug) Active Learning by Design. Faculty Professional Development Workshop at Mayville State University, Mayville North Dakota.
- Sletten, S.** (2019, Aug) Campylobacter Conundrum. Oral presentation at the Ignite Learning Summit, Fergus Falls, Minnesota.
- Sletten, S.** (2018, March) Student Self-regulated Learning and Perceptions in a Flipped Course. Oral presentation at the Central Group on Educational Affairs (CGEA AAMC) Regional Spring Meeting, Rochester, Minnesota
- Sletten, S.** (2018, March) Active Learning with the CDC. Oral presentation at the ND Collaborative STEAM Conference, Valley City, North Dakota
- Sletten, S.** (2017, October). Tales of a Part-Time STEM Coordinator. Oral presentation at the ND DPI Fall Educators Conference, Bismarck, North Dakota.
- Sletten, S.**; Peterson, G.; Stafslie, G. (2017, March). Educational Engineering: Teaching Engineering, STEM, and 21<sup>st</sup> Century Skills through Project-Based Learning. Oral presentation at the ND STEAM Conference, Minot, North Dakota.
- Lyman, K. J., Hackney, K., Christensen, B., **Sletten, S.** & Hanson, T. (2015, November). Kinesio taping® as a low-cost intervention to assist with quadriceps muscle recruitment during exercise countermeasures. Oral presentation at the Kinesio Taping Association International Research Symposium, Tokyo, Japan.
- Lyman, K. J., Hackney, K., Christensen, B., **Sletten, S.** & Hanson, T. (2015, November). Kinesio taping® as a low-cost intervention to assist with quadriceps muscle recruitment during exercise countermeasures. Poster presentation at the American Society for Gravitational and Space Research Conference, Alexandria, VA.

- Sletten, S.** (2015) *Investigating self-regulated learning strategies in the flipped classroom*. Oral presentation at the Society for Information Technology & Teacher Education International Conference, Las Vegas, NV.
- Sletten, S.**; Bestge, M.; Peterson, G.; Staflien, G. (2015, Mar) *Bringing STEM & Engineering Concepts into the Elementary Classroom*. Breakout session presented at NDSTA Annual Conference, Bismarck, ND.
- Sletten, S.** (2014, Oct) *Bringing STEM Education and Engineering Concepts into the Classroom*. Poster presentation at Mathematics and Science Partnerships National Conference, Washington DC.
- Sletten, S.** (2014, Feb) *Flipping the Classroom: Can it Work for Me?* Breakout session presented for NDSTA Annual Conference, Valley City, ND.
- Konschak, S.** (2013, Oct) *Bringing STEM Education and Engineering Concepts into the Classroom*. Poster presentation at Mathematics and Science Partnerships National Conference, Washington DC.
- Konschak, S.** (2013, Feb) *Mobile Learning*. Breakout session presented for NDSTA Annual Conference, Bismarck, ND.
- Konschak, S.**; Ness, J.; & Bestge M. (2012, Oct) *Bringing STEM Education and Engineering Concepts into the Classroom*. Paper session presented for the Mathematics and Science Partnerships Program Regional Conference, New Orleans, LA.
- Konschak, S.** (2011, Feb) *Incorporating the Engineering Design Process into the Classroom*. Breakout session presented for NDSTA Annual Conference, Bismarck, ND
- Konschak, S.**; Petell, C.; Schiltz, J.; Petell, J.; & Bradley, D. (2009). *Anti-West Nile Virus antibodies provide protection from WNV infection: Protective antibodies recognize diverse WNV proteins*. Poster presentation for American Association of Immunologists Annual Meeting, Seattle, WA.

\* Denotes student mentee

### *Other Speaking Engagements*

Panelist, *Future of Workplace Culture*. (10-12-2023) Session presented during Curiosity Week. Fargo, ND

Faculty Talk, *From Campus to Corporation: Contrasting Job Application Processes*. (10-21-2023) Session presented at Biomedical Sciences Annual Retreat. Grand Forks, ND

### *Grant Funding*

**Sletten, S. (PI)** & Brown-Borg, H. (mPI). "R25: Indians Into Medicine: Native Educator University Research Opportunity in Neuroscience (INMED: NEUROscience)" Renewal. National Institutes of Health, NINDS, Jan 2022 – Dec 2026, \$517,800. (Left project 6-2022)

**EPSCoR Track 1:** New Discoveries in the Advanced Interface of Computation, Engineering, and Science (ND-ACES). PI Rusch; **Education Workforce Development co-Lead**. National Science Foundation 1946202, 2020-2025, \$20,000,000. (Left project 6-2022)

Berg, J. (PI). **Sletten, S. (co-I)** "ADVANCE Catalyst: Improving Gender and Foreign-Born Equity among STEM Faculty at the University of North Dakota." National Science Foundation, May 2021-May 2023, \$274,713. (Left project 6-2022)

*Completed*

**Sletten, S. (PI)**, Porter, J (mPI), Warne, D. (mPI). “R25: Indians Into Medicine: Native Educator University Research Opportunity in Neuroscience (INMED: NEUROscience)”. National Institutes of Health, NINDS, Jan 2018 – Dec 2021, \$322,260.

**Sletten, S. (PI)** “Top Hat Engagement Study.” Top Hat Corporation, Jan 2020 – Feb 2021, \$8000

**Sletten, S. (PI)** “Open Educational Resources: Microbiology 202 Lab Images.” University of North Dakota, Aug 2019 – May 2019, \$3000.

### **Service** *Institution*

**Biomedical and Health Sciences Curriculum Committee**, School of Medicine & Health Sciences, University of North Dakota

Responsibilities:  
(Oct 2021-Oct 2024)

**Medical Admissions Committee**, School of Medicine & Health Sciences, University of North Dakota

Responsibilities: Review candidate applications and participate in interviews; provide recommendations for student admission  
(Jul 2021-Jun 2024)

**2023 HLC Accreditation Team**, University of North Dakota

Responsibilities: Criterion 1 writing team  
(Jan 2021-Jun 2022)

**University Assessment Committee**, University of North Dakota

Responsibilities: review assessment plans for programs across the University  
(Oct 2020-Jun 2022)

**Committee on Tenure and Promotion Member**, School of Medicine and Health Science, University of North Dakota

Responsibilities: review faculty dossiers, evaluate dossiers against department/school guidelines for promotion and tenure  
(Jul 2018-2024; co-Chair 2020-Jun 2022)

**Undergraduate Education Committee** Biomedical Sciences, University of North Dakota

Responsibilities: lead meetings of BIMD undergraduate faculty, ensure assessment of all BIMD courses is being conducted, discuss and take action on matters related to the undergraduate courses within the Department  
(Feb 2018-present; Chair Feb 2018- Jun 2021; Aug 2023 - Present)

**Graduate Admission Committee**, Biomedical Sciences, University of North Dakota

Responsibilities: review graduate student applications, interview applicants, and help select new M.S. and Ph.D. students  
(Aug 2017-2020)

**Faculty Senator**, Mayville State University, Mayville, ND

Responsibilities: represent Division of Science and Mathematics faculty on campus issues  
(Aug 2016-2017)

**Technology Planning Committee**, Mayville State University, Mayville, ND

Responsibilities: work with colleagues from across the institution to make technology decisions for the campus  
(2014-2016)



**RN to BSN Nursing Advisory Board**, Mayville State University, Mayville, ND

Responsibilities: provide feedback and support for MSU nursing program and accreditation  
(2015-2017)

**Mission Statement Work Group**, Mayville State University, Mayville, ND

Responsibilities: work with colleagues from across the institution to define and revise our campus mission statement  
(Spring 2016)

*Community and Society***American Association of Immunologists Member**

Responsibilities: attend national conferences and engage in professional communication with other members  
(2020-current)

**American Society for Microbiology Member**

Responsibilities: attend national conferences and engage in professional communication with other members  
(2018-2022)

**Ad Hoc Reviewer:**

NIH UE5 Study Section  
NIH NINDS R25 Study Sections  
NIH NARCH Study Section  
*National Center for Case Study Teaching in Science*  
*Journal of Science Education and Technology*  
*Computers & Education*  
*Frontiers Immunology*  
*Journal of Microbiology & Biology Education* (ASM)

**North Dakota Association for Talent Development Member**

Responsibilities: planning committee for state conferences and engage in professional communication with other members  
(2010-2021)

**North Dakota Science Teachers Association Member**

Responsibilities: assist with annual conference planning, maintain contact with state members, attend National Congress on Science Education as ND's voting member, create and send out newsletter, facilitate annual association and Executive Board meetings  
(January 2010-present; President: April 2015-April 2016)

**National Science Teachers Association Member**

Responsibilities: attend national conferences and engage in professional communication with other members  
(2010-2021)

**May-Port Community Club Member**, Mayville-Portland, ND

Responsibilities: attend meetings, take minutes, maintain contact with members, and engage in event planning  
(2015-2019; Secretary: November 2016-November 2017)

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**Mentorship**  
*Students*

**Jonathan Nguyen**, Graduate Committee Member, Microbiological Sciences, NDSU  
**Michelle Salyer**, Graduate Committee Member, Educational Practice & Leadership, UND  
**Shawn Adkins**, Graduate Committee Member, Educational Practice & Leadership, UND  
**Georgia Paul**, Graduate Student Supervisor, ND EPSCoR project  
**Andrea Doyon**, Graduate Student Supervisor, ND EPSCoR project  
**Makayla Melvin**, Undergraduate Student Supervisor, INMED: NEURO project  
**Ashlee Nelson**, Graduate Student Supervisor, INMED: NEURO project

### *Faculty*

**Stephanie Mathews**, PALM Network Mentor, Biological Sciences, Campbell University

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### **Licenses/Certifications**

**Medical Laboratory Technician License**, ND Board of Clinical Pathology ND 20-0551-II (2020-2022)

**ASCP Board Certificate**, American Society for Clinical Pathology (lifetime certified)

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### **Honors**

**Outstanding Undergraduate Instructor Award Nominee**, University of North Dakota, 2021-22

**Top Hat 2020 Educator Award – Student Impact**, Top Hat Corp., Toronto, Canada  
 (2020; <https://www.youtube.com/watch?v=GC2Fn417DIY>)

**CDC Science Ambassador Fellow**, CDC Headquarters, Atlanta, GA  
 (2017-2018)

**NDUS 2017 Faculty Commendation Award**, Bismarck, ND  
 (2017)

**23andMe Grant Honorable Mention Recipient** and **Institute Invite**, 23andMe DNA Headquarters, Mountain View, CA (2017)

**MSU Teacher of the Year Nominee**, Mayville State University, Mayville, ND  
 (2011, 2016, 2017)

**Mathematics and Science Partnerships Grant Recipient**, North Dakota Department of Public Instruction, Bismarck, ND  
 (2010, 2013, 2015, 2016)

**National Center for Case Study Teaching in Science** at University at Buffalo, NY  
 Selected to attend summer case study workshop  
 (2014)

**Teacher and Technology Grant Recipient**, Quest Foundation, Inc.  
 (2009)

**Teacher of Excellence Award**, University of Mary, Bismarck ND  
 (2007)