

# LINDSAY CHANEY, PHD

## CURRICULUM VITAE

### PROFESSIONAL APPOINTMENTS

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- 2020-Present **Associate Professor**; Department of Biology, Snow College, Ephraim, UT
- 2021-2023 **Interim Assistant Provost**; Snow College, Ephraim, UT
- 2016-2020 **Assistant Professor**; Department of Biology, Snow College, Ephraim, UT
- 2014-2016 **Post-Doctoral Fellow**; USDA Forest Service Rocky Mountain Research Station Shrub Sciences Laboratory, Provo, UT  
Advisor: Dr. Bryce A. Richardson
- 2014-2016 **Post-Doctoral Fellow**; Brigham Young University, Provo, UT  
Advisor: Dr. Joshua A. Udall

### EDUCATION

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- 2010-2014 **Ph.D. Biology**; University of Cincinnati, Cincinnati, OH  
Dissertation topic: Understanding the Evolutionary Potential of Weeds  
Advisor: Dr. Regina S. Baucom
- 2009-2010 **B.S. Biology**, Mathematics minor, cum laude; West Virginia University, Morgantown, WV
- 2005-2006 Utah State University, Logan, UT (transferred without degree)
- 2003-2005 **A.S.**, cum laude; Snow College, Ephraim, UT

### ADDITIONAL CREDENTIALS

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Online Excellence: Designing and Teaching an Online Course

### TEACHING EXPERIENCE AT SNOW COLLEGE:

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*Key for Modalities: I – In person; H – honors; O – online; C – competency based; A – accelerated*

- General Biology (BIOL 1010) – **I, O, OC, OA**
- General Biology Laboratory (BIOL 1015) – **I, O, OC**
- Environmental Biology (BIOL 1420) – **I, O**
- Environmental Biology Laboratory (BIOL 1425) – **I, O**
- Biology II – Plant Diversity (BIOL 1620) – **I**
- Biology II Laboratory – Plant Diversity (BIOL 1625) – **I**
- Biology Undergraduate Research (BIOL 2915, BIOL 2925) – **I**
- Cooperative Education – Co-op (BIOL 1997) – **I**
- Genetics (BIOL 2030) – **I**
- Genetics Laboratory (BIOL 2035) – **I**
- Foundations: Constructing My Story (GNST 1200; HONRS 2850) – **I, IH**
- Foundations: Earth: The Landscape Around Us (GNST 1200) – **I**
- Foundations: Coding My Story (GNST 1200) – **I, IH, O**

## PRIOR TEACHING EXPERIENCE

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- 2015-2016     **Adjunct Instructor** at Utah Valley University; Orem, UT  
College Biology I Laboratory (BIOL 1615)
- 2014           **Dual-Enrollment Coordinator** at University of Cincinnati; Cincinnati, OH  
Introduction to Environmental Studies I (EVST 1011)
- 2013           **Co-Instructor** at University of Cincinnati; Cincinnati, OH  
Introduction to Environmental Studies I (EVST 1011)
- 2013           **Head Teaching Assistant** at University of Cincinnati; Cincinnati, OH  
Evolution, Ecology, and Genetics (BIOL 2082C)
- 2010-2012     **Teaching Assistant** at University of Cincinnati; Cincinnati, OH  
Genetics and Cell (BIOL 2081C)           Biology Lab (BIOL 112)  
Ecology (BIOL 303)                         Genetics (BIOL 302)
- 2010           **Teaching Assistant** at West Virginia University; Morgantown, WV  
Plant Systematics (BIOL 450)

## PROFESSIONAL DEVELOPMENT – SELECTED INTENSIVE PROGRAM:

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- 2021           USHE Women’s Leadership Exchange (UWLE)  
Mentors: University of Utah's Senior Vice President for Academic Affairs  
Dr. Dan Reed and Dr. Martell Teasley  
Project: *Building a Microcredential Program at Snow College*

## PROFESSIONAL DEVELOPMENT – PUBLICATIONS:

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### Publications in Peer-Reviewed Journals while at Snow College: (\* undergraduate student)

- 2020           L. Chaney & R.S. Baucom. “The soil microbial community alters patterns of selection on flowering time and fitness related traits in *Ipomoea purpurea*.” *American Journal of Botany*, 107(2), 186-194. <https://doi.org/10.1002/ajb2.1426>; Data: <https://doi.org/10.5061/dryad.p8350q3>; Code: [https://github.com/lchaney/MG\\_Microbe](https://github.com/lchaney/MG_Microbe). Cover Photo.
- 2019           P.J. Maughan, L. Chaney, D.J. Lightfoot, B.J. Cox, M. Tester, E.N. Jellen, & D.E. Jarvis. “Mitochondrial and chloroplast genomes provide insights into the evolutionary origins of quinoa (*Chenopodium quinoa* Willd.)” *Nature Scientific Reports*, 9, 185. <https://doi.org/10.1038/s41598-018-36693-6>
- 2018           B.A. Richardson & L. Chaney. “Climate-based seed transfer of a widespread shrub: population shifts, restoration strategies and the trailing edge.” *Ecological Applications*, 28(8), 2165-2174. <https://doi.org/10.1002/eap.1804>; Data: <https://doi.org/10.5061/dryad.q477f90>; Code: <http://doi.org/10.5281/zenodo.1409268>
- 2018           M.T. Stevens, C.D. Roush\*, & L. Chaney. “Summer drought reduces the growth of invasive tree-of-heaven (*Ailanthus altissima*) seedlings.” *Natural Areas Journal*, 38(4), 230-236. <https://doi.org/10.3375/043.038.0403>
- 2017           B. Richardson, L. Chaney, N.L. Shaw & S.M. Still. “Will phenotypic plasticity affecting flowering phenology keep pace with climate change?” *Global Change Biology*, 23(6), 2499-2508. <https://doi.org/10.1111/gcb.13532>

- 2017 L. Chaney, B.A. Richardson & M.J. Germino. "Climate drives adaptive genetic responses associated with survival in big sagebrush (*Artemisia tridentata*)."  
Evolutionary Applications, 10 (4), 313-322.  
<https://doi.org/10.1111/eva.12440>. Cover photo
- 2016 L. Chaney, R. Mangelson\*, T. Ramaraj, E.N. Jellen, & P.J. Maughan. "The Complete Chloroplast Genome Sequences for Four *Amaranthus* Species (Amaranthaceae)".  
Applications in Plant Sciences, 4(9). <https://doi.org/10.3732/apps.1600063>
- 2016 L. Chaney, A.R. Sharp & J.A. Udall. "Next-generation mapping for structural variation detection in comparative plant genomics."  
Trends in Plant Science, 21(9), 770-780.  
<https://doi.org/10.1016/j.tplants.2016.05.004>

**Publications in Peer-Reviewed Journals prior to Snow College:**

- 2014 L. Chaney, & R.S. Baucom. The costs and benefits of tolerance to competition in *Ipomoea purpurea*, the common morning glory. Evolution, 68: 1698–1709.  
<https://doi.org/10.1111/evo.12383>
- 2012 L. Chaney, & R.S. Baucom. The evolutionary potential of Baker’s weediness traits in the common morning glory, *Ipomoea purpurea* (Convolvulaceae). American Journal of Botany, (99)9, 1524-153.  
<https://doi.org/10.3732/ajb.1200096>

**Published abstract prior to Snow College:**

- 2014 R.S. Baucom & L. Chaney. "The prevalence of fitness costs of tolerance across organisms."  
Symposium for The Society for Integrative and Comparative Biology. Austin, TX.

**PROFESSIONAL DEVELOPMENT – PRESENTATIONS AT ACADEMIC CONFERENCES**

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**Oral Presentations while at Snow College:**

- 2023 L. Chaney, K. Parry, & M. Jenkins. "Incorporating CBE into Traditional, Degree-Granting Practices."  
Competency Based Education Network Exchange; Amelia Island, FL  
L. Chaney, D. Allred, & A. Teichert. "Coding My Story: Interdisciplinary GE as Part of FYE." Annual Conference on The First-Year Experience; Los Angeles, CA
- 2022 L. Chaney, K. Parry, & M. Jenkins. "GE CBE: General Education Development for Competency-Based Education." Competency Based Education Network Exchange; Amelia Island, FL
- 2019 L. Chaney & B. A. Richardson. "Creating Empirical Seed-transfer Zones for Big Sagebrush (*Artemisia tridentata*)."  
Utah Crop Improvement Association Wildland Seed Collector Meeting. Ephraim, UT.
- 2017 L. Chaney, B.A. Richardson & M.J. Germino. "Climate drives adaptive genetic responses associated with survival in big sagebrush."  
Society for the Study of Evolution Annual Conference; Portland, OR. <https://youtu.be/Uy3d4Spgfwo>

**Oral Presentations prior to Snow College:**

- 2016 L. Chaney, B. Richardson, & M. Germino. "Climate drives adaptive genetics in big sagebrush (*Artemisia tridentata*)."  
Society of Ecological Restoration and Great Basin Native Plant Project. Boise, ID. (Invited)
- 2015 L. Chaney, D.M. Jaeger, & B.A. Richardson. "Survival and seed size in big sagebrush restoration."  
2015. Utah Section Society for Range Management. Moab, UT. (Invited)

- 2015 B. Richardson, L. Chaney, N. Shaw, & M. Germino. "Growth, seed yield and survivorship clines of big sagebrush (*Artemisia tridentata*): relationships to climate and development of seed transfer zones." Society of Ecological Restoration. Manchester, UK.
- 2015 B. Richardson, L. Chaney, N. Shaw, & M. Germino. "Clines in growth, seed yield and survivorship among subspecies big sagebrush: relationships to climate and development of seed transfer zones." Great Basin Consortium Native Plant Program. Boise State University; Boise, ID.
- 2014 L. Chaney & R.S. Baucom. "Plants that persist: Are highly tolerant plants also the most fit?" Society of the Study of Evolution. Raleigh, NC.
- 2014 L. Chaney & R.S. Baucom. "Baker's General Purpose Genotype: Are highly tolerant weeds also the most fit?" Midwest Ecology and Evolution Conference. Dayton, OH. (Invited)
- 2013 L. Chaney & R.S. Baucom. "The evolution of tolerance to competition in the common morning glory, *Ipomoea purpurea*." Society of the Study of Evolution. Snowbird, UT.

**Internal Oral Presentations while at Snow College:**

See section: "Service to Snow College"

**Internal Oral Presentation prior to Snow College:**

- 2015 L. Chaney. "What's the story morning glory? Understanding the evolutionary potential in an agricultural weed." Brigham Young University Plant and Wildlife Sciences department seminar. Provo, UT.
- 2014 L. Chaney. "The evolution of weeds: tolerance to competition." University of Cincinnati Department of Biological Sciences Seminar Series and Awards Ceremony. Cincinnati, OH.
- 2013 L. Chaney. "The evolution of tolerance across nature: what is tolerance and why is it interesting?" University of Cincinnati Department of Biological Sciences Bioblitz Retreat. Fernbank Park, Cincinnati, OH.

**Guest Lecturer prior to Snow College:**

- 2014 L. Chaney. "Creating a Genome Physical Map." Genomics (PWS 468), BYU.

**Table-talk Presentations while at Snow College: (\* undergraduate student, presenting author)**

- 2019 L. Chaney. "Impact of Group Exams in Non-majors Biology: a Mixed Methods Analysis." Society for the Advancement of Biology Education Research Conference; Minneapolis, MN
- 2017 M. Cox\*, E. Hinds\*, & L. Chaney. "Constructing My Story – an Interdisciplinary Course with Genetics, Folklore, and Woodworking." Folklore Society of Utah Meeting. Ephraim. UT

**Poster Presentations while at Snow College: (\* undergraduate student, presenting author)**

- 2020 A. Ukena\*, M. Miles\*, & L. Chaney. "CRISPR in the Classroom." American Society of Microbiologist Intermountain Branch Meeting. Ogden, UT.
- 2020 L. Chaney, D. Allred, & M. Jenkins. "Integrative Learning: The Foundation of General Education." Association of American Colleges and Universities Conference on General Education, Pedagogy, and Assessment. Jacksonville, FL.
- 2017 L. Chaney. "Effectiveness of different assessment strategies in non-majors introductory biology." National Association of Biology Teachers Annual Conference; St. Louis, MO

2017 \*C. D. Roush, L. Chaney, & M. T. Stevens. "Summer drought reduces the growth of invasive tree-of-heaven seedlings." Utah Conference on Undergraduate Research. Orem, UT.

**Poster Presentations prior to Snow College: (\* undergraduate student, presenting author)**

- 2016 L. Chaney & B. Richardson. "Climate at the local and landscape level drive adaptive genetic responses associated with survival in big sagebrush (*Artemisia tridentata*)." Sagebrush Ecosystem Conference. Salt Lake City, UT.
- 2016 L. Chaney, B. Richardson, & M. Germino, "Climate at the local & landscape level drive adaptive genetic responses associated with survival in big sagebrush (*Artemisia tridentata*)." Great Basin Native Plant Project. Boise, ID
- 2016 L. Chaney, B. Richardson, & J. Udall. "Genome map of quacking aspen (*Populus tremuloides*)." Plant and Animal Genome Conference XXIV. San Diego, CA.
- 2015 B. Richardson, L. Chaney, N. Shaw, & M. Germino. "Clines in growth, seed yield and survivorship among subspecies big sagebrush: relationships to climate and development of seed transfer zones." Great Basin Consortium Native Plant Program. Boise State University; Boise, ID.
- 2014 L. Chaney & R.S. Baucom. "The costs and benefits of tolerance: a look across multiple systems and stressors." Invasion Genetics: The Baker and Stebbins Legacy Symposium. Asilomar, CA.
- 2014 \*L. Gilfillan & L. Chaney. "Artificial herbivory and its effects on high and low fitness groups of *Ipomoea purpurea*." University of Cincinnati Undergraduate Research Conference. Cincinnati, OH.
- 2013 L. Chaney & R.S. Baucom. "Tolerance and plasticity in an agricultural weed, the common morning glory." University of Cincinnati Graduate Poster Forum. Cincinnati, OH.
- 2013 \*Z. Ahmed, L. Chaney, & R.S. Baucom. "Photosynthetic capability of *Ipomoea purpurea* under salt and drought stress." University of Cincinnati Undergraduate Research Conference. Cincinnati, OH.
- 2013 \*T. Schaible, L. Chaney, & R.S. Baucom. "The effect of salinity on the relative growth rate of *Ipomoea purpurea*." University of Cincinnati Undergraduate Research Conference. Cincinnati, OH.
- 2012 L. Chaney & R.S. Baucom. "The evolutionary potential of weediness traits in the common morning glory, *Ipomoea purpurea*." Midwest Ecology of Evolution Conference. Cincinnati, OH.
- 2012 L. Chaney & R.S. Baucom. "The evolutionary potential of weediness traits in the common morning glory, *Ipomoea purpurea*." University of Cincinnati Graduate Poster Forum. Cincinnati, OH.
- 2010 \*L. Chaney, et al. "The interactive effects of carbon dioxide and temperature on the competitive interaction between invasive Japanese stiltgrass (*Microstegium vimineum* (Trin.)) and native American ginseng (*Panax quinquefolius* L.)." West Virginia University Senior Capstone Poster Symposium. Morgantown, WV.

**PROFESSIONAL DEVELOPMENT – WORKSHOPS, CONFERENCES, & COURSES ATTENDED:**

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- 2024 Discover Biochemistry and Molecular Biology; San Antonio, TX  
Grant Training Center NSF Proposal Writing Course; Online  
Council on Undergraduate Research Proposal Writing Institute; River Falls, WI
- 2023 CC Bio INSITES: Envisioning the Future of CC BER; Washington, DC  
CC Bio INSITES = Community College Biology Instructor Network to Support Inquiry into Teaching and Education Scholarship  
Innovations Academy – Teaching with Inclusion and Relevance; Snow College  
Annual Conference on The First-Year Experience; Los Angeles, CA  
Leapfrog User Conference; Tuscan, AZ

- 2022 AAC&U Conference on Diversity, Equity, and Student Success; Henderson, NV  
 Competency Based Education Network Exchange; Amelia Island, FL  
 What is an Educated Persons Conference; Midway, UT  
 Innovations Academy – Foundations Revisions; Snow College  
 Utah’s State Summit on Credit for Prior Learning; Orem, UT  
 Association of American Colleges and Universities (AAC&U) Conference on General Education,  
 Pedagogy, and Assessment; San Diego, CA.
- 2021 American Conference of Academic Deans (ACAD) Annual Meeting; St. Petersburg, FL  
 Competency Based Education Network Exchange; Austin, TX  
 Badgers Belong Upstander Training  
 DesignPLUS Basics, Module Builder and Templates, and Intermediate Trainings  
 Society for the Advancement of Biology Education Research (SABER) West Online/Virtual  
 Conference  
 SABER West Workshop: Honoring the Complexity of Genetics – Exploring how undergraduate  
 learning of multifactorial genetics affects belief in genetic determinism  
 COVID Vaccination: From Science to Society, Combatting misinformation in science and medicine  
 Faculty Mentoring Network (FMN)
- 2020 Association of American Colleges and Universities (AAC&U) Conference on General Education,  
 Pedagogy, and Assessment; Jacksonville, FL.
- 2019 National Science Teacher Association (NSTA) Area Conference; Salt Lake City, UT.  
 Failure as a part of Learning: A Mindset Education network (FLAMEnet) Workshop; Atlanta, GA  
 Strengthening CC Bio INSITES: Mentoring for BER Success; Washington, DC  
 CC Bio INSITES = Community College Biology Instructor Network to Support Inquiry into Teaching and Education Scholarship  
 Society for the Advancement of Biology Education Research Conference; Minneapolis, MN  
 CRISPR in the Classroom: workshop for undergraduate educators to implement CRISPR;  
 Minneapolis, MN
- 2018 American Society of Microbiology’s Improving Undergraduate Biology Education Based on  
 Research in Science Learning Online Course  
 National Association of Biology Teachers Annual Conference; San Diego, CA  
 Summer Institutes of Scientific Teaching Online Webinars:  
 Course Reform Focusing on Non-Science Majors General Education Experiences;  
 Implementing Active Learning in Online Courses  
 How People Learn  
 Folklore Society of Utah Meeting; Ephraim, UT  
 Birds of Sanpete – Snow College Community Education; Ephraim, UT  
 CC Bio INSITES: Launch Meeting; Washington, DC
- 2017 National Association of Biology Teachers Annual Conference; St. Louis, MO  
 Utah Society for Environmental Education Annual Conference; Logan Utah  
 Society for the Study of Evolution Annual Conference; Portland, OR  
 Society for the Study of Evolution – Education Meeting; Portland, OR
- 2016 National Association of Biology Teachers Annual Conference; Denver, CO

**Prior to Snow College:**

- 2015 Metagenomics Analysis at the Summer Institute in Statistics & Modeling in Infectious Diseases; Seattle, WA.
- 2015 Publish and Flourish. Brigham Young University; Provo, UT.
- 2014 Experiencing Evolution: A Professional Development Workshop for Undergraduate Educators. Society for the Study of Evolution; Raleigh, NC.
- 2013 Avoiding Extinction in the Classroom. Society for the Study of Evolution; Snowbird, UT.
- 2013 Professional Development in Academic Biology. University of Cincinnati; Cincinnati, OH.
- 2012 Quantitative Genetics and Mixed Models in Quantitative Genetics at Summer Institute in Statistical Genetics; Seattle, WA.
- 2010 Evidence Based Teaching. University of Cincinnati; Cincinnati, OH.

**PROFESSIONAL DEVELOPMENT – MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:**

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- Utah Cut Flower Farm Association (UCFFA) – Associate Member
- Society for the Advancement of Biology Education Research (SABER)
- National Association of Biology Teachers (NABT)
- National Science Teacher Association (NSTA)
- Utah Science Teacher Association (UtSTA)
- Botanical Society of America (BSA)
- Society for the Study of Evolution (SSE)
- American Society of Microbiologists (ASM)
- Natural Areas Association (NAA)
- Utah Society for Environmental Education (USEE)
- Textbook and Academic Authors Association (TAAA)
- Association for Women in Science (AWIS)

**PROFESSIONAL DEVELOPMENT – AWARDS AND GRANTS RECEIVED:**

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**External Awards while at Snow College:**

- 2018-2023 CC Bio INSITES (Community College Biology Instructor Network to Support Inquiry into Teaching and Education Scholarship)
- 2021 USHE Innovations Grant for CBE
- 2021 SABER West Workshop registration
- 2020 Conference registration and student conference registration for NABT
- 2019 Travel and full registration award for CRISPR in the Classroom Workshop.
- 2019 Partial travel and full registration award for Failure as a part of Learning: A Mindset Education Network (FLAMENet) Workshop
- 2017 Publication grant from Text and Academic Authors (\$1,000)

**Internal Awards while at Snow College:**

- 2023 Undergraduate Quality Initiative: Audible Books and DC stay
- 2022 Competency Based Education course development
- 2020 Accelerated online learning course development
- 2019 Undergraduate Quality Initiative: NSTA conference registration and travel

- Snow College Student Travel Award – Foundation course Capital Reef Field Trip  
Foundation course development
- 2018 Travel for National Association of Biology Teachers Conference; San Diego, CA  
Foundation course development
- 2017 Undergraduate Quality Initiative: ASM Improving Undergraduate Biology Education  
Travel for National Association of Biology Teachers Conference; St. Louis, MO  
Undergraduate Quality Initiative: Ancestry DNA test and DC stay  
Online course development funds  
Open Educational Resources development funds
- 2016 Undergraduate Quality Initiative: Publications charges  
Travel for National Association of Biology Teachers Conference; Denver, CO

**External Awards prior to Snow College:**

- 2015 U.S. Presidential Management Fellows Semi-Finalist (fellowship program through US federal government agencies)  
Summer Institute in Statistics Modeling Infectious Diseases Tuition Scholarship  
Summer Institute in Statistics Modeling Infectious Diseases Travel Scholarship
- 2014 University of Cincinnati Department of Biology J. Robie Vestal Award for Outstanding Doctorate Student
- 2013, 2014 University of Cincinnati Graduate Student Governance Association Presenter Travel Award
- 2013 University of Cincinnati department of Biological Sciences Weiman / Benedict Research Awards. Examination of the ‘general purpose genotype’ in an agricultural weed, *Ipomoea purpurea*. \$800 funded June 2013 to June 2014.
- 2013 Society for the Study of Evolution Travel Award
- 2012 University of Cincinnati department of Biological Sciences Benedict Research Awards. Assessing the evolutionary potential of weeds: a look at Baker’s traits in the common morning glory, *Ipomoea purpurea*. \$800 funded June 2012 to June 2013.
- 2012 Summer Institute in Statistical Genetics Tuition Scholarship  
Summer Institute in Statistical Genetics Travel Scholarship
- 2011 University of Cincinnati Department of Biology J. Robie Vestal Award for Outstanding Master Student  
University of Cincinnati department of Biological Sciences Wendal Botany Grant. Natural Selection on Weediness in *Ipomoea purpurea*: Response To Competition. \$1,976.94 funded June 2011 to May 2012.  
University of Cincinnati department of Biological Sciences Benedict Research Awards. Natural Selection on Weediness in *Ipomoea purpurea*: Response To Competition. \$1,200 funded June 2011 to May 2012.
- 2010-2014 University of Cincinnati University Graduate Scholarship (UGS)
- 2010-2012 University of Cincinnati Chose Ohio First Scholarship
- 2009-2010 West Virginia University President’s List and Dean’s List
- 2005-2006 Utah State University Aggie Scholar Scholarship
- 2003-2005 Snow College Dean’s List
- 2003-2005 Snow College Academic Excellence Scholarship

2003-2005 Snow College Athletic Volleyball Scholarship

**External Awards Applied and Not Funded while at Snow College:**

- 2024 NSF LSAMP ADG: “Science, Technology, Engineering, and Mathematics for Utah (STEM4U).” ) Institutional Director: L. Chaney; Co-PI: Annie Isabel Fukushima.
- 2023 NSF LSAMP-SPIO grant. “Louis Stokes New STEM Pathways Implementation-Only Alliance: Utah STEM for Minority Explorations - STEM ME.” (\$3,495,313) Institutional Director: L. Chaney; Co-PI: Annie Isabel Fukushima.
- 2020 NSF Scholarships in Science, Technology, Engineering, and Mathematics Program (S-STEM). (\$650,000). “Sense of belonging in STEM students when returning back to school after a leave of absence.” PI: L. Chaney, Co-PI’s: S. Ferguson, & R. Taylor.

**External Awards Applied and Not Funded prior to Snow College:**

- 2016 Using big sagebrush to improve big sagebrush restoration. 2016 David H. Smith Conservation Research Fellowship. \$145,000; July 2016 to June 2018.
- 2015 Comparative genomics of two *Populus* trees by creating whole genome physical maps. American Association of University Women Fellowship for Postdoctoral Research. \$30,000; July 2015–June 2016.
- 2014 Examination of the general purpose genotype in an agricultural weed, *Ipomoea purpurea*. Sigma Xi Student Grants-In-Aid of Research University of Cincinnati Chapter. \$3,000; 2014.
- 2013 Environmental studies dual enrollment outreach grant. University of Cincinnati dual enrollment partnership grant. \$1,000; 2013. [Not funded due changes in university administration and accompanying priorities]
- Examination of the general purpose genotype in an agricultural weed, *Ipomoea purpurea*. University of Cincinnati University Research Council. \$3,000; 2013.
- The evolutionary potential of an agricultural weed, *Ipomoea purpurea*. University of Cincinnati Graduate Summer Undergraduate Mentoring Program. \$3,000; 2013.
- 2011 Natural selection on weediness in *Ipomoea purpurea*: response to competition. University of Cincinnati University Research Council. \$3,000; 2011.
- Weediness in morning glory and its response to competition with corn. University of Cincinnati Graduate Summer Undergraduate Mentoring Program. \$3,000; 2011.

**SERVICE TO SNOW COLLEGE:**

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**Service as Interim Assistant Provost:**

- Serve as the Academic Affairs non-voting member of Curriculum Committee and the General Education Committee, and oversee the Academic Standards Committee
  - Provide a bridge for administrative and faculty perspectives
  - Work with chair to train committee members
  - Maintain consistency from committee to committee
  - Provide knowledge of policy and procedure
  - Contribute a depth of knowledge on what has been discussed previously
  - Provide an unbiased opinion when needed

- Assist committee chairs in leading and carrying committee duties
- . Micro-credentialing and Digital Badging Committee Co-Chair (2021 – 2023)
  - Lead the college to develop a Microcredentialing program.
  - Multiple campus workshops and webinars
  - Currently offering 54 different microcredentials
  - Have issued to 112 awardees in first year
- . Develop K-16 discipline specific workshops
  - Collaborate with Heidi Stringham and Becky Callister
  - Put on discipline specific workshops, each held in Richfield & Ephraim
    - \*Math and Science
    - \*English and Language Arts
    - \*Social Science and Fine Arts
  - Organized and trained faculty presenters
  - Created and set the agenda
  - Surveyed Snow students and led discussion on students experiences
  - Had 51 High School Faculty in attendance
- . Oversee Snow Colleges Foundations Program
  - Work with Faculty Fellows to ensure delivery of a high-quality program
- . Innovations Academy 2023: Teaching with Relevance and
  - Planned the 2023 Innovations Academy and lead the planning committee
  - Organized and hosted virtual and in-person book club discussions
- . Worked closely with the Provost and the Institutional Research Office to prepare for Assessment Day, train faculty, and review reports
- . Organized and led Knowledge Area Assessments as part of the standard review cycle
  - AI, QL, E1, E1, HU, FA, and Foundations x3
- . Textbooks
  - First point of contact for our online textbook provider (Akademos / TBB)
  - Work with faculty, chairs, and deans to insure accurate and timely adoptions
  - Coordinate with bookstore, faculty, publishers, registrars office, financial aid office, and budget director to ensure correct delivery and billing of Inclusive Access textbooks
  - Frequent collaboration with Snow's Campus store on textbook issues
  - Surveyed faculty to gain input on textbook provider for RFP, served on RFP
  - Conducted a campus wide student survey on textbook costs
    - \*337 total respondents
    - \*Information helped inform the "debt-free" working group
- . Work with external partners to create 2+2 articulation agreements and improve transfer into and out of Snow with 4-year schools and tech ed schools.
  - Occasionally attend USHE Transfer Council
- . Work with Institutional Research Office to oversee program reviews in accordance to USHE R411 policy
- . Oversee and manage Course Leaf (CL) implementation
  - CL is our new curriculum, catalog, and scheduling management software
- . College Guided Pathways / CIP Code project steering committee

- . Help run the college Prior Learning Assessment program
  - Facilitate portfolio evaluation
  - Write reports and policy
  - Member of the USHE PLA Professional Development Working Group
  - Member of the USHE PLA Portfolio Working Group
- . Member of the State USHE GE Task Force
  - Work to revise USHE R470 policy
- . Lead a faculty team to set parameters for Engaged Learning funds (USAL money \$36,600)
- . Served on the Utah Conference of Undergraduate Research committee
- . Served as the interim director of the Institutional Research Board
- . Oversaw administration of course evaluations
- . Work closely with Academic Affairs team to plan and present Back to School meetings
- . Contributing (but non-voting) member of Deans Counsel
- . Help plan and attend Department Chair Meetings
- . Help plan and attend New Faculty Meetings
- . Utah First Year Experience Consortium Steering Committee
- . Competency Based Education Steering Committee (2021 – 2023)
  - Helped led the development and implementation of CBE courses at Snow
- . Academic Calendaring Committee
  - Play a key role in soliciting feedback and gathering possible calendars
- . Worked closely with the registrar’s office to implement course scheduling policies and procedures
- . Served on the Search Committee for the VP of Student Affairs & Enrollment Management
- . Strategic Enrollment Planning Executive Team & Academic + Mix and Modality Group
- . Data Governance Committee (2021 – 2023)

**College Committees and Service:**

- . Curriculum Committee Chair (Fall 2019 – Spring 2021)
- . Curriculum Committee: Science Division Representative (Fall 2018 – Spring 2021)
- . Service Learning Committee: Curriculum Committee Representative (Spring 2019)
- . Great Basin Task Force (Fall 2019 – Fall 2020)
- . New A&T Document Ad Hoc Writing Committee (Fall 2017 – Fall 2018)
- . Advisor for Honors Thesis: Robyn DeMann, “A Needling Question: Vaccines and the Scientific and Ethical Reasons Parents Should Employ Them” (Fall 2017)
- . Faculty/Peer Evaluation Team:
  - Nicole Taylor (Biology; 2023 – Lead)
  - Jed Rasmussen (Biology; 2020)
  - Kade Perry (English; 2019)
  - Greg Bosshardt (Biology; 2018)
  - Chad Dewey (Natural Resources; 2017)
- . Foundations Assessments Reviewer (2020, 2021, 2022, 2023)
- . Faculty Search Committee for New Hires:
  - Biology: Spring 2021
  - Chemistry: Summer 2018

-English: Summer 2018

**Division Committees and Service:**

- Greenhouse Committee: attended greenhouse planning meetings and arranged tours of three greenhouses in Provo for committee and architects to see (2018 - 2018)
- Science Displays Committee: a 2nd floor representative (Spring 2019)
- Planetarium Steering Committee

**Campus Events:**

- Darwin Day: organized a week of evolution related activities campus wide (2018, 2019, 2020)
- Earth Day: class participated by setting up environmental education booths (2019)
- March Mammals Madness: solicited for brackets, displayed brackets, awarded winners (2017, 2018, 2019, 2020, 2021, 2022, 2023)

**Talks & Presentations Given at the College:**

- Convocation Speaker:
  - Professing What We Don't Know: What Scholars Are Still Trying to Learn. With L. Smith, G. Wright, & S. Hood. [https://youtu.be/-cKk\\_VwQ-SI?t=2061](https://youtu.be/-cKk_VwQ-SI?t=2061) (Fall 2019)
- Science Division Seminars and Brown Bags:
  - Evolution Everywhere: Examples and Evidence for Darwin Day (Feb 2019)
  - Evolution of Plants: Using Ecological Genetics to Understand How Plants Adapt to a Changing Environment (March 2018)
  - The Other Faces of Evolution for Darwin Day (Feb 2019)
  - Team Based Learning: Moving from Group Work to Developing Meaningful Skills
- Pedagogy & Practice Conference:
  - Teaching Evolution to Increase Scientific Literacy (Oct 2017)
- Guest Lecture:
  - DNA and the Storage of Genetic Information. Course: HONR 2850; Information in our Lives and the Universe. (Fall 2019)
- Foundation Course Workshop: Constructing My Story (Spring 2019)

**Outside Presenters Brought In:**

- Innovation Academy – Teaching with Inclusion and Relevance:
  - Lais Martinez, USHE “Creating Belonging in the Classroom”
  - Dr. Harrison Kleiner, USU “Engagement Begins With Having a Why”
- Convocation Speakers (invited and hosted speakers):
  - Dr. Jerry Johnson, BYU “Darwin in Our Time: How Evolution Makes Life Better.”
  - Dr. Heath Ogden, UVU “Lessons from Darwin: For Scholarship and Life.”
- Campus Speaker (invited and hosted speakers):
  - Dr. Jamie Jensen, BYU “Addressing Questions at the Intersection of Evolution and Religion.”
- Classroom speakers:
  - Fulbright scholar Dr. Natasha Ribeiro, Mozambique (Spring 2018)
  - Melissa Landen, Utah Division of Natural Resources (Spring 2018, Fall 2018)
  - Dr. Chad Dewey, Natural Resources, Snow College (Fall 2017, Spring 2018)
  - Dr. Ted Olsen, Emeritus Faculty, Snow College (Fall 2017, Spring 2018, Fall 2018)

**Student Clubs:**

- Bio Club Advisor (Fall 2018 – Present)
  - Co-runner up for 2020 Lorenzo Snow Club of the Year Award
  - Consistently hold activities twice a month with a field trip each semester
  - Speak to all clubs about holding activities in the time of COVID.
  - Provided numerous Snow Blast Activities to recruit Snow College Students
  - A National Association of Biology Teachers club – receive \$100 a year for activities, provides green cords for club members that graduate with a 3.5+ GPA, and allows club members to apply for a \$500 textbook scholarship
    - \*Aubrey Ukena – NABT 2-Year College 2020 Scholarship Winner
    - \*Dakota Barnett – NABT 2-Year College 2021 Scholarship Winner
    - \*Jessica Willmore – NABT 2-Year College 2022 Scholarship Winner
- Wrestling Club Advisor (Spring 2017)

**Other College Service:**

- NJCAA Volleyball Referee Staff – Line Judge (2021, 2022)
- Volunteer Assistant Coach and Statistician for Snow College Volleyball Team (2021)
- Family Host for Snow College Volleyball Team (2022)
- Assisted three students in attending NSTA conference, joining the Utah Science teacher Association, and receiving the Noyce Scholarship for pre-science teachers
- Letters of Recommendations for students
- International Student Outreach – Friendship Family: Camillo Castelblanco

**SERVICE TO THE COMMUNITY:**

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**Community Outreach Events:**

- GEMS – Girls in Engineering, Math, and Science: organized and lead outreach effort for middle- and high-school girls in the community. Included over 20 hand-on science activities put on by professional from the college and community
  - Hosted active social media pages with virtual events (2020)
  - Over 110 attendees (2019)      -50 attendees (2018)
- Science Olympiad; put on events and wrote exams for the following events:
  - Green Generation B/C (2021, 2022, 2023)
  - Heredity B, Designer Genes C (2020, 2019)
  - Ecology B/C (2018)
  - Invasive Species B/C (2017)
- Science Nights:
  - Trophic Levels and Dissecting Owl Pellets (2019)
  - Uses and properties of corn (2018)
  - Science of water and snowflakes (2017)
  - Strawberry DNA Extractions (2016)
- Other Outreach:
  - 2023 Annual Eclipse
  - STEM FEST 2022
  - Growing Plants in Space –Astronomy’s club 50th Anniversary of the Apollo

**Fieldtrips:**

- Put on hands-on science demonstration for local elementary school kids
  - Ephraim 2<sup>nd</sup> Grade Field Trip (2023, 2019)
  - Gunnison 2<sup>nd</sup> Grade Field Trip (2019)
  - Manti 1<sup>st</sup> grade field trip (2018)
  - Math Contest department tours (2017)
  - Ephraim 5<sup>th</sup> grade classes during GRSC dedication (2017)

**Other Science Outreach:**

- Botany lesson and greenhouse tour for local girl scout troop (2017)
- Brought a group of local 11 year-old girls to a planetarium show (2017)
- HS Science Teacher Workshop: Genetics in the Classroom (2016)

**Non-Science Outreach:**

- Advisor and mentor for local youth (2019 – *Present*)
- Coach for youth community sports teams (2019 – *Present*)
- Club Director for Sanpete Elite Volleyball (2023 – *Present*)
- Sanpete Elite 17U Volleyball Coach (2021)
- Manti High School Girls Volleyball JV and Assistant Varsity Coach (2020)

**Outreach prior to Snow College:**

- Organized, recruited, and mentored 7-12th grade biology teachers for a five-week Research Experience for Teachers (RET) on plant genomics. (2016, 2017)
- Treasurer for Biology Grad Student Association at UC (2012-2014)
- Volunteer judge at the Regional Science and Engineering Exposition for grades 6-12 (2011, 2013, 2014)
- Volunteer at National Lab Day at Hughes STEM High School (2011)

**SERVICE TO THE PROFESSION:**

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**Reviewer for Peer-Reviewed Journals:**

Ecological Applications  
Applications in Plant Sciences (APPS)

**Review for Peer-Reviewed Teaching Resources:**

Course Source

**Review for Textbook Chapters:**

Principles of Life, Ch 2 Life's Chemistry and the Importance of Water  
Sinauer Associates Publishers/Oxford University Press and Macmillan Learning  
Principles of Life by Hillis et al.  
Sinauer Associates/Oxford University Press  
Environmental Science: Chapter 7 Forests: Log 'em or Leave 'em? by Stiling'  
Macmillan Learning's Environmental Science for a Changing World module review  
Module 8.1: Food Resources: Feeding the World  
Module 8.2: Food Resources: Sustainable Agriculture