CURRICULUM VITAE
ASHLEY I. TEUFEL, Ph.D.

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EDUCATION

Ph.D., Molecular Biology, University of Wyoming 2015
Advisor: David Liberles

B.S., Mathematics, Minor: Bioinformatics, New Mexico State University 2007

B.S., Computer Science, Minor: Mathematics, New Mexico State University 2006

ACADEMIC POSITIONS

Assistant Professor of Bioinformatics Dept. of Natural Sciences, Texas A&M University - San Antonio 2021–present

Omidyar Fellow, Santa Fe Institute 2019–2021

Postdoctoral Fellow, Dept. of Integrative Biology, The University of Texas at Austin 2015–2018
Advisor: Claus Wilke

Research Fellow, Dept. of Biology, Temple University 2015

TEACHING

Biostatistics II, Instructor, Texas A&M University - San Antonio 2024

Graduate Seminar, Instructor, Texas A&M University - San Antonio 2023 - 2024

Graduate Statistics I (Biostatistics I / Statistical Methods in Research), Instructor, Texas A&M University - San Antonio 2023 - present

Bioinformatics, Instructor, Texas A&M University - San Antonio 2023 - present

Undergrad Research in Biology, Instructor, Texas A&M University - San Antonio 2022 - present

Gen Biology I - Attributes of Living Systems, Instructor, Texas A&M University - San Antonio 2022

Seminar - Cell/Molecular Biology, Instructor, Texas A&M University - San Antonio 2022

Seminar - Integrative Biology, Instructor, Texas A&M University - San Antonio 2021, 2022, 2023

Statistics in Biology and Medicine, Instructor, Texas A&M University - San Antonio 2021-2024

Science Sprint: Building models to detect, project, and combat COVID-19, Mentor, The University of Texas at Austin (virtual event) 2020

Biostatistics, Instructor, The University of Texas at Austin 2018

Computational Biology & Bioinformatics, Guest Lecturer, The University of Texas at Austin 2017

Gene Family Analysis Workshop, Teaching Assistant, New Mexico State University 2014

Bioinformatics, Guest Lecturer & Teaching Assistant, University of Wyoming 2012, 2014

Computers in Biology, Teaching Assistant, University of Wyoming 2011, 2013

Mathematics in Biology, Developer & Teaching Assistant, New Mexico State University 2009

Computer Science, Laboratory Proctor & Tutor, New Mexico State University 2005–2010

EXTERNAL FUNDING

$9,995 College Grant "Enhancing Urban Ecosystem Studies in South San Antonio through AI" funded by Texas A&M University - San Antonio College of Arts & Sciences. Awarded to: Teufel, A., Barillas, J., and Borda, E. 2024

$3,550 Working group "Capturing the Evolutionary Capacity to Innovate via Novel Interactions in Protein Interaction Networks" funded by Santa Fe Institute Education 2019

$6,383 Working group "The Point of No Return" funded by Santa Fe Institute 2019

$53,505 Grant "Master Key vs. Extra Key: Testing competing lock-and-key hypothesis for constrained protein-protein evolution" funded by BEACON an NSF center 2018

$2,898 "Seeing the Tree and the Forest: Understanding Individual and Population Variation in Biology, Medicine, and Society" fellowship funded by The University of Texas at Austin 2017

PUBLICATIONS

24. Liberles, D. A., Meyer, M. M., Rest, J. S., and **Teufel**, A. I. (2021). 2021 zuckerkandl prize. *Journal of Molecular Evolution*, 90(1):1

23. Klein, B., Holmér, L., Smith, K. M., Johnson, M. M., Swain, A., Stolp, L., **Teufel**, A. I., and Kleppe, A. S. (2021). A computational exploration of resilience and evolvability of protein–protein interaction networks. *Communications Biology*, 4(1):1352

22. **Teufel**, A. I., Liu, W., Draghi, J. A., Cameron, C. E., and Wilke, C. O. (2021). Modeling poliovirus replication dynamics from live time-lapse single-cell imaging data. *Scientific reports*, 11(1):1–15

21. Ahrens, J. B., **Teufel**, A. I., and Siltberg-Liberles, J. (2020). A phylogenetic rate parameter indicates different sequence divergence patterns in orthologs and paralogs. *Journal of Molecular Evolution*, pages 1–11

20. Shoemaker, L. G., Barner, A. K., Bittleston, L. S., and **Teufel**, A. I. (2020). Quantifying the relative importance of variation in predation and the environment for species coexistence. *Ecology Letters*, 23(6):939–950

19. Laurent, J. M., Garge, R. K., **Teufel**, A. I., Wilke, C. O., Kachroo, A. H., and Marcotte, E. M. (2020). Humanization of yeast genes with multiple human orthologs reveals functional divergence between paralogs. *PLoS Biology*, 18(5):e3000627

18. **Teufel**, A. I. (2019). Spire: R package for single-cell population infection replication estimation. *Zenodo*, page 10.5281/zenodo.3366146

17. Liberles, D. A. and **Teufel**, A. I. (2018). Evolution and structure of proteins and proteomes. *Genes*, 9(12):583

16. **Teufel**, A. I., Johnson, M. M., Laurent, J. M., Kachroo, A. H., Marcotte, E. M., and Wilke, C. O. (2018). The many nuanced evolutionary consequences of duplicated genes. *Molecular Biology and Evolution*, 36(2):304–314

15. **Teufel**, A. I., Ritchie, A. M., Wilke, C. O., and Liberles, D. A. (2018). Using the mutation-selection framework to characterize selection on protein sequences. *Genes*, 9(8):409

14. Jiang*, Q., **Teufel***, A. I., Jackson, E. L., and Wilke, C. O. (2018). Beyond thermodynamic constraints: evolutionary sampling generates realistic protein sequence variation. *Genetics*, 208(4):1387–1395

13. Caglar, M. U., **Teufel**, A. I., and Wilke, C. O. (2018). Sicegar: R package for sigmoidal and double-sigmoidal curve fitting. *PeerJ*, 6:e4251

12. **Teufel**, A. I. and Wilke, C. O. (2017). Accelerated simulation of evolutionary trajectories in origin-fixation models. *Journal of The Royal Society Interface*, 14(127):20160906

11. Orlenko*, A., **Teufel***, A. I., Chi, P. B., and Liberles, D. A. (2016). Selection on metabolic pathway function in the presence of mutation-selection-drift balance leads to rate-limiting steps that are not evolutionarily stable. *Biology Direct*, 11(1):31

10. **Teufel**, A. I., Liu, L., and Liberles, D. A. (2016). Models for gene duplication when dosage balance works as a transition state to subsequent neo-or sub-functionalization. *BMC Evolutionary Biology*, 16(1):45

9. Zhao, J., **Teufel**, A. I., Liberles, D. A., and Liu, L. (2015). A generalized birth and death process for modeling the fates of gene duplication. *BMC Evolutionary Biology*, 15(1):275

8. **Teufel**, A. I., Masel, J., and Liberles, D. A. (2015). What fraction of duplicates observed in recently sequenced genomes is segregating and destined to fail to fix? *Genome Biology and Evolution*, 7(8):2258–2264

7. **Teufel**, A. I. (2015). *Mechanistic Models of the Evolutionary Dynamics of Duplicated Genes*. (Dissertation) University of Wyoming

6. **Teufel**, A. I., Zhao, J., O'Reilly, M., Liu, L., and Liberles, D. A. (2014). On mechanistic modeling of gene content evolution: birth-death models and mechanisms of gene birth and gene retention. *Computation*, 2(3):112–130

5. Jones, M. R., Forester, B. R., **Teufel**, A. I., Adams, R. V., Anstett, D. N., Goodrich, B. A., Landguth, E. L., Joost, S., and Manel, S. (2013). Integrating landscape genomics and spatially explicit approaches to detect loci under selection in clinal populations. *Evolution*, 67(12):3455–3468

4. Liberles, D. A., **Teufel**, A. I., Liu, L., and Stadler, T. (2013). On the need for mechanistic models in computational genomics and metagenomics. *Genome Biology and Evolution*, 5(10):2008–2018

3. **Teufel**, A. I., Grahnen, J. A., and Liberles, D. A. (2012). Modeling proteins at the interface of structure, evolution, and population genetics. In *Computational Modeling of Biological Systems*, pages 347–361. Springer

2. Liberles, D. A., Teichmann, S. A., Bahar, I., Bastolla, U., Bloom, J., Bornberg-Bauer, E., Colwell, L. J., de Koning, A. P. J., Dokholyan, N. V., Echave, J., Elofsson, A., Gerloff, D. L., Goldstein, R. A., Grahnen, J. A., Holder, M. T., Lakner, C., Lartillot, N., Lovell, S. C., Naylor, G., Perica, T., Pollock, D. D., Pupko, T., Regan, L., Roger, A., Rubinstein, N., Shakhnovich, E., Sjölander, K., Sunyaev, S., **Teufel**, A. I., Thorne, J. L., Thornton, J. W., Weinreich, D. M., and Whelan, S. (2012). The interface of protein structure, protein biophysics, and molecular evolution. *Protein Science*, 21(6):769–785

1. Konrad*, A., **Teufel***, A. I., Grahnen, J. A., and Liberles, D. A. (2011). Toward a general model for the evolutionary dynamics of gene duplicates. *Genome Biology and Evolution*, 3:1197–1209

PRESENTATIONS

26. "Uncovering Viral Replication Dynamics from High-throughput Single-cell Experiments" Trinity University, San Antonio, TX (March, 2022)

25. "Modeling Covid-19 Spread in Long Term Care Facilities in the Greater Austin, TX Region" University of Texas at Austin Covid Modeling Consortium, virtual (August, 2020)

24. "Uncovering Viral Replication Dynamics from High-throughput Single-cell Experiments" Center for Computation and Technology, Louisiana State University, Baton Rouge, LA (February, 2020)

23. "The Many Nuanced Evolutionary Consequences of Protein Functional Divergence" Department of Biological Sciences, Louisiana State University, Baton Rouge, LA (February, 2020)

22. "Translational Efficiency and The Evolution of Position-Dependent Codon Usage" Society for Molecular Biology and Evolution (SMBE) Annual Meeting, Manchester, England (July, 2019)

21. "The Point of No Return: Entrenchment in Molecular, Technological, and Social Systems" JSMF- SFI Postdocs in Complexity V, Santa Fe, NM (March, 2019)

20. "Is Evolution Irreversible?" JSMF- SFI Postdocs in Complexity IV, Santa Fe, NM (September, 2018)

19. "The Many Nuanced Consequences of Gene Duplication" BEACON Center for the Study of Evolution in Action, Lansing, MI (August, 2018)

18. "The Many Nuanced Consequences of Gene Duplication" Society for Molecular Biology and Evolution (SMBE) Annual Meeting, Yokohama, Japan (July, 2018)

17. "How Does Complex Life Functionally Diversify?" The University of Arizona, Tucson, AZ (February, 2018)

16. "How Does Complex Life Functionally Diversify?" The Santa Fe Institute, Santa Fe, NM (January, 2018)

15. "A Protein's Guide to Losing Friends and Alienating Partners" University of Central Florida, Orlando, FL (November, 2017)

14. "Functional Shifts in Duplicated Genes via Specialization of Interacting Partners" BEACON Center for the Study of Evolution in Action, Lansing, MI (August, 2017)

13. "Uncovering Replication Principles from Single-cell Virology Experiments" Society for Molecular Biology and Evolution (SMBE) Annual Meeting, Austin, TX (July, 2017)

12. "Protein Flexibility and the Irreversibility of Evolution" Texas Protein Folders Meeting, Cleveland, TX (April, 2017)

11. "Functional Retention of Protein-Protein Interactions Despite Substantial Sequence Divergence" BEACON Center for the Study of Evolution in Action, Lansing, MI (August, 2016)

10. "Functional Retention of Protein-Protein Interactions Despite Substantial Sequence Divergence" Society for Molecular Biology and Evolution (SMBE) Annual Meeting, Gold Coast, Australia (July, 2016)

9. "What Fraction of Gene Duplicates Observed in Recently Sequenced Genomes is Segregating and Destined to Fail to Fix?" Lehigh Valley Ecology and Evolution Symposium, Allentown, PA (April, 2015)

8. "Selective Pressures on Amino Acid Substitutions During Human-Chimpanzee Divergence" Society for Molecular Biology and Evolution (SMBE) Annual Meeting, Chicago, IL (July, 2013)

7. "Selective Pressures on Amino Acid Substitutions During Human-Chimpanzee Divergence" Quantitative Laws of Genome Evolution, Lake Como, Italy (July, 2013)

6. "Towards a General Model for the Evolutionary Dynamics of Gene Duplicates" Stockholm Bioinformatics Center, Stockholm University, Stockholm, Sweden (August, 2012)

5. "The Interface of Evolutionary Dynamics of Gene Duplicates and Landscape Genetics" Symposium on Landscape Genetics, University of Toronto, Toronto, Canada (May, 2012)

4. "Towards a General Model for the Evolutionary Dynamics of Gene Duplicates" Mechanisms of Protein Evolution, University of Colorado Health Sciences Center, Denver, CO (December, 2011)

3. "Lineage-Specific Substitution Patterns at the Interface of Effective Population Size, Linkage, and Biochemistry" Synthesis Meeting on Modeling Protein Structural and Energetic Constraints on Sequence Evolution, NIMBioS, Durham, NC (October, 2011)

2. "Unifying Models for Estimating Population Size and Demography" New Mexico State University Bio-Symposium, Las Cruces, NM (April, 2010)

1. "Spatial-Temporal Models of Primate Behavior" New Mexico State University, Las Cruces, NM (May, 2009)

POSTERS

4. "Translational Efficiency and The Evolution of Position-Dependent Codon Usage" Molecular Mechanisms in Evolution Gordon Research Conference, Easton, MA (June, 2019)

3. "Accelerated Simulation of Evolutionary Trajectories in Origin–Fixation Models" Institute for Cellular and Molecular Biology at The University of Texas at Austin Retreat, Horseshoe Bay, TX (September, 2016)

2. "Selective Pressures on Amino Acid Substitutions During Human-Chimpanzee Divergence" NSF Bioinformatics Workshop, Little Rock, AR (March, 2013) (3^{rd} place poster award)

1. "Simulation of Evolutionary Dynamics of Gene Duplicates" New Mexico Bioinformatics Science and Technology Symposium, Santa Fe, NM (October, 2012)

POSTERS & PRESENTATIONS - STUDENTS & COLLABORATORS

19. "Ecological Use of AI for Invertebrate Zoology" Texas A & M University - San Antonio Student Research Symposium Spring, San Antonio, TX (2024) (poster) - Flores, A., **Mejia, A.**, Teufel, A. and Rodolfo Valdez Barillas, J.

18. "Agent-Based Modeling to Assess Optimal Conditions for Reducing Air Transmission" Texas A & M University - San Antonio Student Research Symposium Spring, San Antonio, TX (2024) (presentation) - **Stacy, L.**, Smyth, D., and Teufel, A.

17. "A Computational Systems Biology Approach for the Identification of Antimicrobial Resistance Genes in Staphylococcus aureus" Texas A & M University - San Antonio Student Research Symposium Spring, San Antonio, TX (2024) (presentation) -**Hasan, I**, and Teufel, A.

16. "Understanding Amphibian Life Cycle Ecology and Evolution via Agent-Based Modeling" Texas A & M University - San Antonio Student Research Symposium Spring, San Antonio, TX (2024) (presentation) -**Lopez, J.**, and Teufel, A.

15. "Agent-Based Modeling to Establish a Protocol for Sampling DNA from the Air." Society for Integrative and Comparative Biology (SICB), Seattle, WA (2024) (presentation) - **Stacy, L.**, Smyth, D., and Teufel, A.

14. "Understanding Amphibian Life Cycle Ecology and Evolution via Agent-Based Modeling" Society for Integrative and Comparative Biology (SICB), Seattle, WA (2024) (poster) - **Lopez, J.**, Teufel, A., and Page, R.

13. "Remipedia: A story of cenotes, pseudogenes, and the species that never existed." Texas Groundwater Invertebrate Forum. San Marcos, TX (2023) (virtual presentaiton) - Calderón-Gutiérrez F., **Sahi M.**, Teufel A., and Borda E.

12. "Remipedia: A story of cenotes, pseudogenes, and the species that never existed." CIMA-LSAMP. San Antonio, TX (2023) (poster) - **Sahi M.**, Calderón-Gutiérrez F., Teufel A., and Borda E.

11. "Genome skimming and pseudogenes in poorly studied Remipedia of the Yucatan Peninsula, Mexico." Southwestern Association of Naturalists, San Antonio, TX (2023) (presentation) - Calderón-Gutiérrez F., **Sahi M.**, Teufel A., and Borda E.

10. "Agent-Based Modeling to Establish a Protocol for Sampling DNA from the Air." The American Society for Microbiology, Texas Branch Meeting, Abilene, TX (2023) (presentation) - **Stacy, L.**, Smyth, D., and Teufel, A.

9. "Agent-Based Modeling to Establish a Protocol for Sampling DNA from the Air." Texas A & M University - San Antonio Student Research Symposium Spring, San Antonio, TX (2023) (presentation) - **Stacy, L.**, Smyth, D., and Teufel, A. (2nd place Graduate Oral Presentation)

8. "The effects of island attributes and hurricanes on Anolis species richness across the Caribbean Islands." Texas A & M University - San Antonio Student Research Symposium Spring, San Antonio, TX (2023) (poster) - **Leak*, D., John*, A.**, Teufel, A., and Watson, C.

7. "Understanding Anuran Life Cycle Ecology and Evolution Through Agent-Based Modeling." Society for Integrative and Comparative Biology (SICB), Austin, TX (2023) (poster) - **Lopez, J.**, Teufel, A., and Page, R.

6. "Agent-Based Modeling to Establish a Protocol for Sampling DNA from the Air." Society for Integrative and Comparative Biology (SICB), Austin, TX (2023) (poster) - **Stacy, L.**, Smyth, D., and Teufel, A.

5. "Agent-Based Modeling to Establish a Protocol for Sampling DNA from the Air." Texas Branch of the American Society for Microbiology (ASM), Houston, TX (2022) (poster) - **Stacy, L.**, Smyth, D., and Teufel, A.

4. "Beyond the genome: The diverse and dynamic post-translational modification landscape of betacoronaviruses as a driver of rapid evolutionary adaptation." International Virus Bioinformatics Meeting (ViBioM), Valencia, Spain, Remote (2022) (poster) - **Gonzalez, J.**, Teufel, A., Siltberg-Liberles, J.

3. "The evolutionary dynamics of post-translational modifications in betacoronaviruses as a potential driver of rapid viral divergence." American Society for Microbiology (ASM) Microbe 2022 Conference, Washington, D.C. (2022) (presentation) - **Morales, D.**, Teufel, A., Siltberg-Liberles, J.

2. "The evolutionary dynamics of post-translational modifications in betacoronaviruses as a potential driver of rapid viral divergence." Viruses Conference, Remote (2022) (poster) - **Morales, D.**, Teufel, A., Siltberg-Liberles, J.

1. "Translational Efficiency and The Evolution of Position-Dependent Codon Usage" Society for Molecular Biology and Evolution (SMBE) Annual Meeting, Austin, TX (2017) (poster) - **Marrow, N.**, Teufel, A., Wilke, C.

JOURNAL REVIEWER EXPERIENCE

Biophysical Journal, BMC Evolutionary Biology, Elife, Integrative and Comparative Biology, Journal of Molecular Evolution, Journal of Theoretical Biology, Molecular Biology and Evolution, Molecular Ecology, PeerJ, PLoS ONE, PLoS Computational Biology, Systematic Biology, Theoretical Population Biology

AWARDS

Ecological Society of America (ESA), Theoretical Ecology Outstanding Paper Award Honourable Mention 2021

Registration and travel awards for Society for Molecular Biology and Evolution (SMBE) annual meeting, Manchester, England. Funded by SMBE 2019

Registration award for SMBE annual meeting, Yokohama, Japan. Funded by SMBE 2018

Registration award for SMBE annual meeting, Austin, TX. Funded by SMBE 2017

Registration award for SMBE annual meeting, Gold Cast, Australia. Funded by SMBE 2016

Travel award for SMBE annual meeting, Chicago, IL. Funded by SMBE 2013

Travel award for "Quantitative Laws of Genome Evolution", Lake Como, Italy. Funded by Wyoming IDeA Networks for Biomedical Research Excellence (INBRE) 2013

Registration for "Quantitative Laws of Genome Evolution", Lake Como, Italy. Funded by UniverLecco, an outreach program from the city of Lecco 2013

Travel award for "NSF Bioinformatics Workshop", Little Rock, AR. Funded by Wyoming INBRE 2013

Travel award for "Symposium on Landscape Genetics" in Toronto, Canada. Funded by The University of Toronto Landscape Genetics Distributed Graduate Course 2012

TRAINEES

Jordan Cruz, Undergraduate Student, Texas A&M University - San Antonio 2024-present

Sean Brandin, Undergraduate Student, Texas A&M University - San Antonio 2024-present

Brittany Acosta, Undergraduate Student, Texas A&M University - San Antonio 2024-present

Abigayle Mejia, Undergraduate Student, Texas A&M University - San Antonio 2024-present

Daniel West, Undergraduate Student (works with Md. Imran Hasan), Texas A&M University - San Antonio 2023-present

Julianna Valencia, Undergraduate Student (works with Lyndsy Stacy), Texas A&M University - San Antonio 2023-2024

(Last known location: Ph.D. Student of Cognition and Neuroscience at The University of Texas at Dallas)

Fatima Tovar Ale, Undergraduate Student, Texas A&M University - San Antonio 2023-present

Vivian Salazar, Undergraduate Student, Texas A&M University - San Antonio 2023-present

Md. Imran Hasan, Graduate Student, Texas A&M University - San Antonio 2023-present

Lyndsy Stacy, Graduate Student, Texas A&M University - San Antonio 2022-2024

(Last known location: Ph.D. Student of Forensic Science at Sam Houston State University)

Jesus Lopez, Undergraduate Student, Texas A&M University - San Antonio 2022-present

Leina Gries, High School Student, Institute for Computing in Research 2019

Genevieve Mortensen, Undergraduate Student, The University of Texas at Austin 2018

Ayat Sharif, Undergraduate Student, The University of Texas at Austin	2017
Nelson Marrow, Undergraduate Student, The University of Texas at Austin	2016-2019
Qian Jiang, Ph.D. Student, visiting scholar at The University of Texas at Austin sponsored by the China Scholarship Council	2016-2017

PROFESSIONAL SERVICE

Provost Faculty Fellow of Generative AI, Texas A&M University - San Antonio	2023–present
Search Committee for Population Genetics Hire (chair), Texas A&M University - San Antonio	2023
HPC Governance Committee, Texas A&M University - San Antonio	2023–present
Undergraduate Curriculum Committee, Texas A&M University - San Antonio	2023–present
Program Review Committee, Texas A&M University - San Antonio	2022–2023
Zuckerkandl Prize Committee Member for the Journal of Molecular Evolution	2021
College of Arts and Sciences Curriculum Committee Member (co-chair, 2022, chair 2023), Texas A&M University - San Antonio	2021–2024
Review Editor of Protein Bioinformatics for the journal of Frontiers in Bioinformatics	2021–present
Zuckerkandl Prize Committee Member for the Journal of Molecular Evolution	2020
Editorial Board Member for the journal BMC Ecology and Evolution	2020–present
Volunteer Lecturer & Mentor at the Institute for Computing in Research	2019
Associate Editor of the Journal of Molecular Evolution	2019–present
Symposium Chair of "Mechanisms of Protein Evolution" at SMBE annual meeting	2017

CONTINUING EDUCATION

Teaching through the Issues (Summer workshop), Texas A&M University- San Antonio	2024
Jag-AI: Institution Transformation Research and Education (3 workshops), Texas A&M University- San Antonio	2024
Faculty Immersion Program, Texas A&M University- San Antonio	2023
Lumina A.I. in the Classroom: Challenges and Opportunities, virtual	2023
Dyslexia Seminar, Texas A&M University- San Antonio	2023

OTHER ACTIVITIES

Student Research Symposium moderator, Texas A&M - San Antonio	2024
Jagwire Days Volunteer, Texas A&M University - San Antonio	2023
Facilitator of CodeBusters event for the Science Olympiad, Texas A&M - San Antonio	2022, 2023, 2024
Featured in Parallax article "The Point of no Return"	2019
Guest Editor for the journal Genes special issue "Evolution and Structure of Proteins and Proteomes"	2017
Second Place in Flaming Gorge Jalapeño Eating Contest held in Laramie, WY	2014

Summer Student of Computational Biology, University of Oxford 2012

Advisor: Jotun Hein

Landscape Genetics Field School, Koffler Scientific Reserve 2012

Advisor: Melanie Murphy

President of the New Mexico State University Association for Computing Machinery 2009-2010

Featured in New Mexico State University Young Women in Computing Fall newsletter 2009

Primate Behavior and Ecology Field School, Baboon Community Sanctuary La Milpa Belize 2009

Advisor: Brenda Benefit

Vice President of the New Mexico State University Association for Computing Machinery 2008-2009

Member of the New Mexico State University Mathematics Honor Society, Pi Mu Epsilon 2005-2010