

## Curriculum Vitae

### MAIKE F. HOLTHUIJZEN

311 Reynolds Ave Apt B, Blacksburg, VA 24060  
(208) 830-0270  
mholthuijzen@alumni.uidaho.edu

#### Education

**University of Vermont**, Burlington, VT  
**Degree:** PhD in Complex Systems and Data Science  
**Graduation Date:** May 2022  
**Credits earned:** 70  
**GPA:** 3.8

**Utah State University**, Logan, Utah  
**Degree:** Master of Science in Statistics  
**Graduation Date:** August 20, 2017  
**Credits earned:** 32  
**GPA:** 3.88/4.0  
**Degree:** Master of Science in Ecology  
**Graduation Date:** August 20, 2015  
**Credits earned:** 37  
**GPA:** 3.86

**University of Idaho**, Moscow, Idaho  
**Degree:** Bachelor of Science in Ecology and Conservation Biology (Natural Resources Ecology Option)  
**Graduation Date:** May 20, 2010  
**Credits earned:** 132  
**GPA:** 3.94, *Magna Cum Laude*

**Mountain View High School**, Meridian, Idaho  
**Graduation Date:** May 2005  
**GPA:** 4.1, *Valedictorian and Commencement Speaker*

**Research interests:** spatiotemporal modeling of ecological and environmental phenomena, Gaussian process modeling, kernel methods, statistical applications in ecology and atmospheric processes

#### Selected Coursework

*University of Vermont (Ph.D Complex systems and data science):* Data structures and algorithms, evolutionary computation, ecological modeling, modeling complex systems, deep learning, Bayesian statistics, data science, algorithm design and analysis

*Utah State University (M.Sc. Statistics):* spatial statistics, methods in big data, statistical computing, statistical learning, data visualization, time series, categorical data analysis,

theory of linear models, advanced R, Applied multivariate analysis, mathematical statistics I & II, probability theory I

*Utah State University (M.Sc. Ecology):* plant community ecology, restoration ecology, communicating science, design and analysis of experiments, soil morphology, programming for biologists, linear regression, linear algebra and differential equations

*University of Idaho (B.Sc. Ecology):* ecology, introduction to population ecology, GIS Primer, forest ecosystem processes, forest community ecology, systematic botany, environmental economics, politics of the environment, the soil ecosystem and lab, advanced statistical analysis, fire ecology and management, landscape ecology, forest dynamics and management, organic chemistry, physics

## Research

*Ph.D Complex Systems and Data Science (University of Vermont)*

Research focused on developing statistical workflows for constructing high resolution, bias-corrected climate data products. I developed workflows for carrying out spatially coherent bias-correction and downscaling for temperature variables using only heterogeneously distributed observations. In addition, I developed a simple, yet effective and robust method for bias-correcting precipitation extremes. Finally, I developed a new bias-correction method that corrects the temporal dependence structure as well as distribution of daily maximum temperature simulations generated by a climate model. The work required the manipulation of large climate datasets as well as theoretical and practical understanding of Bayesian and non-Bayesian statistics and inference, spatial and spatiotemporal modeling techniques, Gaussian process modeling, process convolutions, and basic understanding of physics-based models.

**Advisors:** Dr. Brian Beckage and Dr. Patrick J. Clemins

**Dissertation:** High-resolution downscaling and bias-correction of temperature and precipitation: advances in statistical methods

*MSc in Statistics (Utah State University)*

Research involved comparing the prediction accuracy of several methods in predicting stream temperatures, specifically in the context of stream networks. Work involved training and applying five statistical methods (random forests, gradient boosting machines, linear models, general additive models, and spatial statistical network models) to two stream temperature network datasets from Idaho. Work also required implementing simulations to determine if the strength of temporal and/or spatial dependencies within data could the predictive performance of methods. Funding requirements included teaching four recitation sections for introductory statistics courses.

**Advisor:** Dr. Richard Cutler

**Thesis:** A methodological comparison of stream temperature prediction approaches

*MSc in Ecology (Utah State University)*

Research was focused on investigating the influence of moisture and grazing gradients on the spatial association of common perennial bunchgrasses and sagebrush in the Great Basin. Work involved planning and carrying out two full seasons of field work over Idaho, Utah, and Nevada, entering and cleaning data, and statistical analyses. The research was part of the Bureau of Land Management's Native Plant Selection and Forb Increase Project.

**Advisor:** Dr. Kari Veblen

**Thesis:** Grass shrub spatial associations over precipitation and grazing gradients in the Great Basin, USA (2015).

*Undergraduate Senior Thesis Research Project (University of Idaho)*

This research explored the effects of low, medium and high burn severity on the response of several native and invasive plant species two years after the 2005 School Fire. This study was part of invasive species research by the U.S. Forest Service in the Umatilla National Forest.

**Advisor:** Dr. Penelope Morgan

**Senior Thesis:** Burn Severity and Vegetation Response after the 2005 School Fire (2008/09)

### **Professional memberships**

- Ecological Society of America (2006-present)
- American Statistical Association (2014-present)

### **Academic awards**

*Graduate fellowships and grants:*

- Vermont EPScOR GRA (awarded summer 2017)
- University of Vermont Computer Science Department TA (awarded fall 2021)
- Utah State University Math Department RA/TA (awarded fall 2015)
- National Science Foundation Graduate Research Fellowship (2012-2015)
- Utah State University Ecology Center Grant (spring 2013)
- Utah State University Ecology Center Grant (spring 2012)

*Undergraduate Scholarships and Awards:*

- Rich and Mary Fox Endowment Award (awarded to a graduating female student athlete with highest overall GPA at U of I; 2010)
- U of I Student Athlete Cross Country/Track and Field Scholarship (2008/2010)
- Golden Key International Honor Society (2008)
- Phi Eta Sigma Honor Society (2007)
- Dean's List at U of I (2006, 2007, 2008, 2009, 2010)
- Tom and Eleanor Felton Endowment Scholarship (2008/09)
- Robert E. Lee Promise Category A Academic Scholarship (2005/06- 2008/09)
- U of I Presidential Scholars Award (2005/06-2008/09)
- U of I Achievement Award (2005/06)
- U of I Monett Scholarship (2006/07, 2007/08)
- Children of IdaCorp Employees (2005/2006-2008/2009)

## **Publications and Reports**

Holthuijzen, Maike F.; Higdon, Dave; Clemins, Patrick J.; Beckage, Brian. Application of a process convolution approach for calibrating output from numerical models. *Environmetrics* (in preparation).

Holthuijzen, Maike F., Beckage, Brian; Clemins, Patrick J.; Higdon, Dave; Winter, Jonathan. Robust Bias-Correction of Precipitation Extremes Using A Novel Hybrid Empirical Quantile Mapping Method: Advantages of A Linear Correction For Extremes. 2022. *Journal of Theoretical and Applied Climatology*.

Holthuijzen, Maike F.; Beckage, Brian; Clemins, Patrick J; Higdon, Dave; Winter, Jonathan. 2020. Constructing high-resolution, bias-corrected climate products: a comparison of methods. *Journal of Applied Climatology and Meteorology*.

Holthuijzen, Maike F. 2018. A comparison of five methods for predicting temperature over stream networks. (MS Thesis, available online: <https://digitalcommons.usu.edu/etd/6535/> )

Holthuijzen, Maike F. and Veblen, Kari E. 2016. Grazing Effects on Precipitation-Driven Associations between Sagebrush and Perennial Grasses. *Western North American Naturalist* 76.3: 313-325.

Holthuijzen, Maike F. and Veblen, Kari E. 2015. Grass-shrub associations over a precipitation gradient and their implications for restoration in the Great Basin, USA. *PLoS ONE* 10(12): e0143170. doi:10.1371/journal.pone.0143170

Holthuijzen, Maike. F. 2015. Grass-shrub spatial associations over precipitation and grazing gradients in the Great Basin, USA. M.Sc. Thesis, Utah State University, Department of Wildland Resources, Logan, Utah. 98pp.( Available online: <http://digitalcommons.usu.edu/cgi/viewcontent.cgi?article=5513&context=etd>)

Holthuijzen, Maike. F. 2010. Burn severity and vegetation response after the 2005 School Fire (2008/09), Idaho, USA. Senior Research Thesis, University of Idaho, Moscow, Idaho.

## **Professional Presentations**

Holthuijzen, Maike F. Constructing high-resolution, bias-corrected climate products: a comparison of methods. 2020. Joint Statistical Meetings (virtual).

Holthuijzen, Maike F.; Denu, D.; Gopchandani, S. Feature selection using genetic algorithms. 2018. UVM Computer Science Fair, University of Vermont, Burlington, VT.

Holthuijzen, Maike. F., and Veblen, Kari E. 2014. Grass-shrub spatial pattern response to a moisture gradient in Great Basin sagebrush communities. Ecological Society of America Annual Meeting 2014, Sacramento, CA.

Holthuijzen, Maike. F., and Veblen, Kari E. 2013. Grass-shrub spatial associations over a precipitation gradient in the Great Basin, USA: insights into ecological restoration. Restoring the West Annual Conference 2013, Utah State University, Logan, UT. (poster)

Holthuijzen, Maike. F. 2012. Burn severity and vegetation response after the 2005 School Fire. Northwest Science Association Annual Meeting 2012, Boise, ID. (poster)

Moy, Marshall. M.; Holthuijzen, Maike F.; Morgan, P.; Lentile, L.B.; Lewis, S. A.; Robichaud, P.; and Robichaud, R.; 2009. Impacts of pre-fire site conditions, burn severity and post-fire treatments on plant regeneration following the 2005 School Fire. 4th International Fire Ecology Congress, 1 December 2009. Savannah, Georgia. (poster)

## **Mentoring/TA**

***August 2021-May 2022***

*TA, Department of Computer Science, University of Vermont*

**Title: Graduate/head TA**

**Accomplishments:** Assisted professors in developing grading rubrics and project guidelines, graded assignments, and held office hours. Classes included *Introduction to programming* (Python-based) and *Design and Analysis of Algorithms* (theory).

***May 2019-August 2019; May 2021-August 2021***

*Basin resilience to extreme events internship program mentor*

**Title: Graduate mentor**

**Accomplishments:** Guided interns through the scientific method and assisted interns in developing their own research projects in climate statistics. Developed materials and code for interns, edited intern reports, and helped interns present their projects through oral and poster presentations as well as written reports.

***August 2019-December 2020***

*Undergraduate thesis mentor*

**Title: Graduate mentor**

**Accomplishments:** Advised an undergraduate student through the research process, helped the student develop a suitable research project, and edited the student's written reports and computer code.

**Research:** Investigating changes in future extreme precipitation over a region in the Northeastern United States

***August 2015-May 2017***

*TA, Department of mathematics and statistics, Utah State University*

**Title: Recitation leader and TA**

Accomplishments: Taught recitation sections for introductory statistics courses.

## Other Skills

### Programming Languages/software

- R, Python, C++ , MatLab , Git bash, Linux operating systems, LaTeX
- ArcMap, QGIS, SAS

### Other Languages

- Dutch

## Professional Experience

### *May 2016-December 2016*

Job Title: **Private statistical consultant**

Supervisor: Martha Archuleta Lacy Petersen

Duties: Analyzed survey data for two separate surveys for the USU dietetics extension in Salt Lake City, UT. Work involved traditional survey analysis techniques as well as exploratory analysis and graphical representations of the data. Analyses and plots were made using SAS and R; results for project objectives were compiled in comprehensive reports.

### *August 2014-May 2017*

Job Title: **Private Statistics Tutor**

Hours/wk: 2-3

Duties: Tutored students in statistics and mathematics courses (introductory statistics, business statistics, pre-calculus, Calculus I-III).

### *August 2014-December 2015*

*Utah State University*

Job Title: **Statistics Tutor, Academic Success Center**

Address: 5200 Old Main Hill, Logan, Utah 84322-5200

Supervisor: Dennis Kohler

Dates of Employment: 08/25/2014-12/11/15

Duties: Tutored undergraduate students in statistics and helped with course work. Courses included introductory statistics, mathematical statistics, and Calculus I-III.

### *April 2011-October 2011*

*Great Basin Institute*

Job Title: **Supervisor -- Botanical Survey Crew**

Address: 16750 Mt. Rose Highway, Reno, NV 89511

Supervisors: Jennifer Brickey; Mike Frank

Dates of Employment: 05/09/2011 -10/27/2011

Duties: Duties/responsibilities included training and supervising a survey crew of 3 members to survey 1500 acres of Wildland Urban Interface (WUI) in the Spring Mountains National Recreation Area, Las Vegas, Nevada. Responsibilities included partner agency coordination, writing weekly progress meetings, project logistics, navigating over steep and harsh terrain using hand-held gps units, conducting basic data analyses, and writing final reports, filling out expense reports, crew timesheets, and mileage logs.

Accomplishments: Successfully completed systematic and intuitive control surveys of 500 acres of rugged WUI terrain; areas were at 7000-10000ft in elevation with slopes ranging from 40-60%. Learned to identify 150+ new plant species and varieties endemic to the Spring Mountains, and trained crew members in field identification of target species. Drafted final reports for all survey units and completed a 24hr ESRI GIS course (Basic Applications of ArcGIS 9.3).

***May 2010-October 2010***

*Bureau of Land Management/ Chicago Botanical Garden*

*Conservation and Land Management Internship*

Job Title: **Botany/Ecology Intern**

Address: Surprise Valley Field Office, 602 Cressler St., Cedarville, CA, 96104

Pay Rate: \$1,100 biweekly salary

Hours/Wk: 40

Supervisors: Roger Farschon, Manager of Black Rock Desert-High Rock Canyon Emigrant Trails National Conservation Area; Curt Booher, BLM Park Ranger; Kathryn Dyer, Range Conservationist

Dates of Employment: 5/26/2010-10/16/2010

Duties: Work included conducting rare plant surveys in northwest Nevada, identifying plant specimens to species level with a taxonomic key, training others in basic plant identification methods, assisting with Seeds of Success monitoring and seed collections, conducting rangeland health assessments using line-point-transect methods, range utilization mapping, and range compliance monitoring. Other duties included assisting with environmental monitoring during Burning Man, creating management reports, generating maps with ArcGIS 9.3 Software, and downloading GPS data. The internship included a 7-day CLM training workshop that covered the following topics: *Seeds of Success* field procedures and background, statistical analysis for ecological data, botany of the West, basic GPS training, and field safety.

Accomplishments: Gained extensive knowledge of native and rare Nevada plants and Nevada plant community ecology. Successfully navigated through the Black Rock Desert High Rock Canyon Emigrant Trails National Conservation Area with a compass, GPS, and maps, and became CPR/First Aid certified (until June 2012). Produced maps for field work and final reports using ArcGis 9.3 software. Gained knowledge of range issues/ management and endangered plant management in northern CA and northwest Nevada and received training in riparian and aspen monitoring.

***May 2009-July 2009***

*Conservation Seeding and Restoration, Inc.*

**Job Title: Biological/Restoration Technician**

**Address: 506 Center Street West, Kimberly, ID 83341-1718**

**Supervisor: Dylan Levy-Boyd, biologist**

**Dates of employment: 05/15/2009- 07/15/2009**

**Duties: Monitoring typical sagebrush-steppe and Great Basin vegetation near oil wells in southeast Wyoming in restored areas and reference sites using line-transect sampling methods, identifying vegetation to species or genus level, identifying plant community types, and making basic management recommendations. Work required extensive navigating with a compass and recording data with a Trimble GPS unit.**

**Accomplishments: Increased knowledge of sagebrush flora and ecosystems and restoration methods associated with desert ecosystems (seeding and transplanting sagebrush). I gained the ability to drive a 4wd vehicle on primitive roads in inclement weather and navigate using a compass and map. I also gained experience working in the private sector.**

***May 2008-July 2008***

*University of Idaho/ U.S. Forest Service*

**Job Title: Fire Ecology Research Technician and Crew Leader**

**Address: Rocky Mountain Research Station, 709 S Deakin Ave, Moscow, ID 83843**

**Supervisor: Penelope Morgan, University of Idaho Faculty**

**Dates of employment: 05/10/2008 - 08/03/2008**

**Duties: Collecting vegetation and soil data related to fire ecology in the Pacific Northwest, eastern Oregon, and northern Idaho. Specific duties included identifying vegetation (native and non-native) to species level, measuring tree heights and soil porosity, assessing burn severity, measuring tree diameters, assessing tree canopy class and condition, and collecting fuels data according to protocol.**

**Accomplishments: Successfully organized data, identified unknown plant species using taxonomic keys (*Flora of the Pacific Northwest*), wrote a field sampling protocol, learned how to collect data using a Trimble GPS unit, and prepped equipment for daily use.**

***May 2007-November 2007***

*U.S. Forest Service*

**Job Title: Forestry Technician**

**Address: Idaho City Ranger District, PO Box 129, Highway 21, Milepost 38.3, Idaho City, ID 83631**

**Supervisor: Todd Demasters, Engine Captain, Idaho City Ranger District**

**Dates of employment: 05/14/2007 - 11/24/2007**

**Duties: Perform FFT1 and FFT2 duties. Specific duties with Idaho City Hot Shots included line construction with hand tools, wet and dry mopping, hiking with heavy packs over rugged and dangerous terrain for extended periods and working long hours in hazardous situations and inclement weather. Specific duties with Engine 31 included line construction with hand tools, bucking and limbing trees with chainsaws, conducting forest health treatments (thinning), constructing hose lays, maintenance and correct use of engine and pump accessories, maintenance and storage of fire hoses and accessories, hiking with heavy packs (40+lbs), working up to 16 hours in adverse weather, and**



camping for up to 2 weeks at a time. Other duties included executing a prescribed burn, carrying out fire prevention activities, and leading a Youth Conservation Crew for 2 weeks at a fire camp.

Accomplishments: Obtained knowledge in basic maintenance and operation of chainsaws, hose accessories, and water pumps. Received re-certification for Apprentice Sawyer. Kept a positive attitude and kept up crew morale in less-than-ideal situations. Successfully supervised and led the Idaho City YCC crew and helped the YCC crew develop and build team strength.

***May 2006-August 2006 &***

***May 2005-July 2005***

*U.S. Forest Service*

Job Title: **Forestry Aid** (Recreation)

Address: Idaho City Ranger District, PO Box 129, Highway 21, Milepost 38.3, Idaho City, ID 83631

Supervisor: Everardo Santillan, Trail Crew Supervisor

Dates of employment: 05/28/2006 – 08/07/2006 and 05/31/2005 – 07/18/2005

Duties: Performed trail construction and maintenance, and fire suppression activities (line construction and mop up). Trail duties included using chainsaws to clear trails, using hand tools (Pulaski, hoe, rock bar, pick, shovel, ax, Macleod, posthole digger, sledgehammer, rake) to reconstruct, reroute, and improve trails, constructing water bars, turnpikes, switchbacks, and trenches. Position also included hiking with a pack and tools over rough terrain for up to 15 miles/day, lifting and moving heavy objects with crew members, using a winch to move objects, camping for up to 5 days in remote locations, and working for long hours in adverse weather conditions. Other duties were tool maintenance (servicing blades with a sharpener and servicing chainsaws), wearing personal protective equipment (earplugs, boots, long pants and shirt, helmet, safety goggles, chaps, gloves) when required, and completion of Red Card Certification, Apprentice Sawyer Certification (2006), and CPR and First Aid courses. Also led Youth Conservation Corps crews for up to 3 weeks, instructing participants in general safety procedures, proper hand tool use and basic trail construction techniques.

Accomplishments: Assessed and addressed trail problems with crew members and successfully completed required repairs safely and in a timely manner with appropriate tools. Successfully taught YCC crews basics of trail maintenance, outdoor ethics and backcountry camping. I led safety discussions and helped YCC crew members achieve project goals in a fun, positive way. Gained experience in teaching/supervising youth in the conservation field.

***June 2004-July 2004 &***

***June 2003-July 2003***

*Northwest Youth Corps*

Job Title: **Crew Member**

Address: 2621 Augusta Street, Eugene, OR 97403

Supervisor: Larry Dompierre, Recruitment Officer

Dates of employment: 06/04/2004 – 07/18/2004 (Backcountry Leadership Program) and 06/10/2003 – 07/16/2003

Duties: Performed trail improvement, reroutes, and construction using hand tools (Pulaski, hoe, ax, rock bars). Construction duties involved building a 100 foot retaining wall (dry), waterbars, check dams, turnpikes, drainage ditches, trenches, and stream diversions, and using a crosscut saw to cut downed logs across trails in a wilderness area. Other duties included aiding in bridge construction (digging trenches, hauling equipment, and basic carpentry), creating slash piles, and hiking with tools and a pack for up to 15 miles a day. Position also included servicing tools, education/leadership activities, and completing camp chores.

Accomplishments: Obtained skills in trail maintenance and construction, gained leadership abilities, worked and lived in the backcountry in strict adherence to No Trace guidelines (i.e. building latrines, hiking out waste, hiking in supplies, etc.), earned Americorps Service Award (2004) and successfully completed 2 solos (solitary days with no social contact for personal growth/development).

## **Other Work Experience**

### ***March 2011-April 2011***

#### *Performance Bicycle*

Job Title: **Sales Associate**

Address: 8587 Franklin Road, Boise, ID, 87309

Supervisor: Matt Wells

Dates of Employment: 3/9/2011 to 4/30/2011

Duties: Responsibilities include providing customer service (i.e. helping customers find and select desired products, giving advice on bicycles, gear, and clothing, and fitting customers on bicycles). Other duties include completing transactions, participating in store training, stocking products, educating customers about store promotions and offers, and occasional custodial jobs.

Accomplishments: Gained knowledge in customer service, the bicycle industry and major brands, and fitting customers to bicycles.

### ***November 2010-January 2011***

#### *REI*

Job Title: **Stocker/Cashier Specialist**

Address: 8300 W. Emerald St., Boise, ID, 83704

Supervisor: Teri Garvin, Colby Selekof,

Dates of Employment: 11/2010 to 1/10/2011

Duties: Stocking duties included stocking product to store floor, receiving and processing shipments, managing/organizing store product warehouse, and retrieving specific products for customers. Cashiering duties included conducting transactions, selling REI memberships, greeting customers, answering and transferring phone calls, and providing customers with a positive shopping experience. Other duties included helping customers find desired products in the store and advising customers on merchandise.

Accomplishments: Gained public speaking/customer service skills and learned how to efficiently stock and organize product in a retail store. Completed cashiering training using POS systems.

## **Volunteer Experience**

### ***February 2011-April 2011***

#### *Girls on the Run*

Job Title: **Coach**

Address: Girls on the Run Treasure Valley, PO Box 6812, Boise, ID 83707

Supervisor: Melissa Bixby

Dates: 2/2011 – 4/2011

Duties: Developing running skills and teaching the Girls on the Run Curriculum twice a week to a group of 16 girls ages 8-10. Lessons include topics such as gossip, developing self-confidence, and making healthy choices.

Accomplishments: Gained teaching/mentoring experience with girls ages 8-10.

### ***February 2011-April 2011***

#### *Foothills Learning Center*

Job Title: **Volunteer**

Address: 3188 Sunset Peak Road, Boise, ID 83702

Supervisor: Kristin Lundstrom

Dates: 2/2011 – 4/2011

Duties: Work on botanical projects associated with the Foothills Learning Center.

Accomplishments: Created a native plant brochure to correspond with the Native Plant Garden at the Foothills Learning Center. I included medicinal information as well as landscaping applications associated with the 50 species of native plants represented. This brochure is available to visitors touring the garden.

### ***January 2011-February 2011***

#### *Treasure Valley YMCA*

Job Title: **YMCA Team Idaho Youth Distance Coach**

Address: 1050 W State St., Boise, ID 83702

Supervisor: Tim Severa

Dates: 1/10/2011 to 2/20/2011

Duties: Providing mentorship and guidance to middle-high school aged distance runners. I provide help with running form, give training/workout advice, and help time the various groups of runners.

Accomplishments: Gained youth teaching/coaching experience

### ***June 2009-August 2009***

#### *Idaho Botanical Gardens*

Job Title: **Garden Volunteer**

Address: Idaho Botanical Gardens, 2355 Old Penitentiary Road, Boise, ID 83712

Supervisor: Ann Debolt, Natural Communities Specialist

Dates of employment: 06/30/2009- 08/20/2009

Duties: Basic gardening tasks: watering, preparation of seedlings, weeding, and pruning. Work also included occasional seed collection from native plants.

Accomplishments: Gained basic gardening skills, increased knowledge of Idaho native plants and ecology, obtained experience in working for a non-profit organization.

## **Athletic achievements**

### *Student athlete*

- University of Idaho Intercollegiate Cross Country/Track and Field Team(2008/2010)
- WAC 2009/2010 Scholar Athlete Award, Track (2009/2010)
- WAC 2010 Outdoor Track and Field 10,000 m Run: All WAC 2<sup>nd</sup> team (2009/2010)
- WAC 2008 Cross Country: All Conference 2<sup>nd</sup> team (2008/2009)
- University of Idaho Women's Intercollegiate Soccer Team(2005/2006)

### *Racing*

2022 :

- Paul Mailman run (10 miles), Montpelier, VT
- Crank the Kanc Hill Climb 2<sup>nd</sup> place Women's division, Franconia, NH
- White Mountains Triathlon Olympic distance 2<sup>nd</sup> place women's division and QOM award, Franconia, NH

2021 :

- Paul Mailman run (10 miles) 1<sup>st</sup> place Women's division, Montpelier, VT
- Crank the Kanc Hill Climb 5<sup>th</sup> place Women's division, Franconia, NH
- White Mountains Triathlon Half Ironman 5<sup>th</sup> place women's division, Franconia, NH
- The Ranger Gravel Race, (not a timed event), Newbury, VT
- Guilford Gravel Grinder, 5<sup>th</sup> place women's division, Guilford, VT
- Vermont Sun Olympic Distance Triathlon, Middlebury, VT, 1<sup>st</sup> place women's division
- Live Free and Tri Half Ironman, Ossipee, NH, 1<sup>st</sup> place overall
- Lake Sunapee Olympic distance aqua bike, Sunapee, NH, 1<sup>st</sup> place women's division
- The Hibernator VT gravel race 86 miles option; 1<sup>st</sup> place women's division

2019

- Tinman Triathlon (half distance), New York, DNF due to injury
- Raid Lamoille gravel grinder 55 mi option (not a timed event), Craftsbury, VT
- Colchester Sprint Triathlon, Burlington, VT 1<sup>st</sup> place Women's Division
- Lake Dunmore Olympic distance triathlon, Middlebury, VT, 3<sup>rd</sup> place Women's Division
- Lake George Half Ironman, Lake George, NY, 3<sup>rd</sup> place Women's Division
- Art Tudehope 10k, 2<sup>nd</sup> place age group
- Fall Fundo Metric Century gravel grinder, Burlington, VT (not a timed event)
- Richard Tom Foundation gravel grinder 65 mi option (not a timed event), Richmond, VT

- Vermont Forest Fondo, 45 mi option (not a timed event), Middlebury, VT

2018

- Archie Post 5 miler, Burlington, VT, 2<sup>nd</sup> Place Women's Division
- Common to Common 30K, Burlington, VT, 2<sup>nd</sup> Place Women's Division
- Art Tudehop 10k, 2<sup>nd</sup> Place in age group
- Circumbirke trail marathon, East Burke, VT, 3<sup>rd</sup> place Women's Division
- Rollin' Irish Half Marathon, Essex, VT, 1<sup>st</sup> place Women's Division, time = 1hr:36mins
- Fall Fundo Metric Century gravel grinder, Burlington, VT (not a timed event)

2017

- Logan half Marathon, Logan, UT, 2<sup>nd</sup> place Women's Division

2014

- Logan Peak Trail Marathon (28 miles), Logan, UT: 1<sup>st</sup> place Women's Division and record breaker for women's division (time = 4hrs:23min), 7<sup>th</sup> place overall
- Wellsville Duathlon, Wellsville, UT: 1<sup>st</sup> place Women's Division

2012

- Smithfield Turkey Run, Smithfield, UT: 1<sup>st</sup> place Women's Division
- First Dam Run, Logan, UT: 1<sup>st</sup> place Women's Division

2011

- Robie Creek Half Marathon, Boise, ID: 1<sup>st</sup> place Women's Division
- Zeitgeist Half Marathon, Boise, ID: 1<sup>st</sup> place Women's Division
- Boise City of Trees Marathon, Boise, ID: 1<sup>st</sup> place Women's Division (time = 2:48), 2<sup>nd</sup> place overall
- Las Vegas Forest Challenge, Las Vegas, NV: 1<sup>st</sup> place overall
- Fire Department 10k, Las Vegas, NV: 1<sup>st</sup> place Women's Division, 2<sup>nd</sup> place overall
- YMCA Christmas Run, Boise, ID: 1<sup>st</sup> place Women's Division

2010

- Idaho Peace Officer Memorial run 5k, Boise, ID: 1<sup>st</sup> place Women's Division, 1<sup>st</sup> place overall
- YMCA Christmas Run, Boise, ID: 2<sup>nd</sup> place Women's Division

2009

- Lewiston Duathlon, Lewiston, ID: 1<sup>st</sup> place Women's Division, 3<sup>rd</sup> place overall
- Palouse Sprint Triathlon, Moscow, ID: 1<sup>st</sup> place Women's Division
- Emmett's Most Excellent Triathlon, Emmett, ID: 5<sup>th</sup> place Women's Division, 1<sup>st</sup> place and Idaho State Champion in Age Division (20-24)
- YMCA Christmas Run, Boise, ID: 2<sup>nd</sup> place Women's Division

2008

- Moscow Mountain Madness 11k Run, Moscow, ID: 1<sup>st</sup> place Women's Division, 3<sup>rd</sup> place overall
- Palouse Sprint Triathlon, Moscow, ID: 2<sup>nd</sup> place Women's Division, 1<sup>st</sup> place in Age Division (20-24)

- Emmett's Most Excellent Triathlon, Emmett, ID: 5<sup>th</sup> place Women's Division, 1<sup>st</sup> place in Age Division (20-24)
  - Lilac Bloomsday 12k Run, Spokane, WA: 5<sup>th</sup> place in Age Division
  - Robie Creek Half Marathon, Boise, ID: 2<sup>nd</sup> place Women's Division
  - Spring Thaw Duathlon, Nine Mile Falls, WA: 1<sup>st</sup> place Women's Division
  - Snake River Canyon Half Marathon, Lewiston, ID: 1<sup>st</sup> place Women's Division
- 2007
- Beezley Burn Mountain Bike Race, Ephrata, WA: 1<sup>st</sup> place Women's Division
  - Spokane River Run, Spokane, WA: 1<sup>st</sup> place Women's Division
  - Hells Canyon 25k Run, Pittsburgh Landing, ID: 1<sup>st</sup> place Women's Division
- 2006
- Moscow Mountain Madness Mountain Bike Race, Moscow, ID: 1<sup>st</sup> place Women's Division
  - Devil's Slide Mountain Bike Race, Lewiston, ID: 1<sup>st</sup> place Women's Division
  - YMCA Spudman Triathlon, Boise, ID: 13<sup>th</sup> place Women's Division, 1<sup>st</sup> place in Age Division