#### **Curriculum Vitae**

#### MAIKE F. HOLTHUIJZEN

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## **Career Objective**

To obtain a position in computational statistics or data science.

## **Education**

University of Vermont, Burlington, VT

**Degree (anticipated):** Ph.D in Complex Systems and Data Science (in progress)

Graduation Date: 2021 (anticipated)

Credits earned: 18

**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: 3.86/4.0

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

## **Selected Coursework**

*University of Vermont (Ph.D CSDS):* Data structures and algorithms, evolutionary computing, ecological modeling, modeling complex systems, deep learning

*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, Advanced Mathematical Statistics 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, 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

#### **Graduate Research**

*Ph.D Complex Systems and Data Science (University of Vermont) (anticipated graduation: 2021)* 

My current work is focused on the development of a bias correction algorithm to be used for downscaling regional climate model predictions. This approach will involve comparing station data to regional climate model predictions using Bayesian spatial statistical methods.

Advisors: Dr. Brian Beckage and Dr. Patrick Clemins

**Dissertation:** (in progress)

MSc in Statistics (Utah State University) (August 2017)

I investigated the prediction accuracy of various methods in predicting stream temperatures for stream temperature network data. My work involved 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, training all methods on a portion of the datasets, and testing prediction accuracy on the remaining portion of the datasets. I wrote complex simulation programs in R to determine why certain methods were more accurate than others. This work has provided insight into predictive power of 5 statistical methods when applied to spatially correlated data. I anticipate submitting a manuscript to *Ecological Applications* in June 2017. Duties also included teaching recitation sections for introductory statistics courses.

**Advisor**: Dr. Richard Cutler

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

*MSc in Ecology (Utah State University)* 

I investigated the influence of moisture and grazing gradients on the spatial association of common perennial bunchgrasses and sagebrush in the Great Basin. I planned and implemented two seasons of field work over Idaho, Utah, and Nevada and collected data at 29 total field sites. I entered data in Excel, cleaned and manipulated data in SAS, and analyzed data in SAS. Other duties included professional presentations, and informal

review of peers' journal articles. This study 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).

Senior Thesis Research Project (University of Idaho)

I studied 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)

## **Graduate Research Support Awards**

- National Science Foundation Grant (Collaborative Research with Dr. Charles P. Hawkins, Ecology Center, USU; August 2015-current)
- National Science Foundation Graduate Research Fellow (May 2012-May 2015)
- Utah State University Ecology Center Grant (spring 2013)
- Utah State University Ecology Center Grant (spring 2012)

## **Publications and Reports**

- Holthuijzen, Maike F., Hawkins, Charles; Cutler, Richard. 2018. A comparison of five methods for predicting temperature over stream networks. Hydrological Processes (in review)
- Holthuijzen, Maike F., and Kari E. Veblen. 2016. Grazing Effects on Precipitation-Driven Associations between Sagebrush and Perennial Grasses. Western North American Naturalist 76.3: 313-325.
- Holthuijzen, M.F., and K. E. Veblen. 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, M. 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, M. 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, M.F, Denu, D, Gopchandani, S. Feature selection using genetic algorithms. 2018. UVM Computer Science Fair, University of Vermont, Burlington, VT.
- Holthuijzen, M. F., and K. E. Veblen. 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, M. F., and K. E. Veblen. 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, M. F. 2012. Burn severity and vegetation response after the 2005 School Fire. Northwest Science Association Annual Meeting 2012, Boise, ID. (poster)
- Moy, M. M., M. Holthuijzen, P. Morgan, L. B. Lentile, S. A. Lewis, P. Robichaud, and R. Robichaud. 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)

## Other Qualifications/Skills

#### Programming Languages/software

- R (advanced), C++ (intermediate), MatLab (intermediate), Git (for use with Github/Gitlab) (intermediate), Linux operating systems (beginner), SAS (intermediate), LaTeX (advanced), Python (intermediate)
- Arc Map 10.2 (intermediate), QGIS
- Microsoft Office: Excel, Word, PowerPoint, Access and Publisher (advanced)

#### Certifications

- Apprentice Sawyer Certification (2006 and 2007)
- Fire Courses: S-131, S-133, S-212, S-211, S-130, S-190, L-180 (received summer 2005-2007)
- Red Card Certification (2005)

#### Other Languages

Dutch

## **Memberships in professional organizations**

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

## **Professional Experience**

## August 2017-current

University of Vermont (Complex Systems and Data Science)

Job Title: Graduate Research Assistant

Address: Burlington, VT Pay Rate: \$2600 / month

Hours/wk: 20

Advisor: Dr. Brian Beckage, Dr. Patrick Clemins Dates of Employment: 08/30/2017-current

Duties: Research duties involve creating a bias correction algorithm using a Bayesian approach

for downscaling regional climate model predictions.

## August 2015-August 2017

*Utah State University (Department of Mathematics)* 

Job Title: Research Assistant

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

<u>Pay Rate</u>: \$1477 / month Hours/wk: variable

Advisor: Dr. Richard Cutler (435-797-2595, work)

Dates of Employment: 08/31/2015-current

<u>Duties</u>: Research duties involved comparing the predictive accuracy of 5 statistical methods to predict stream temperature over stream networks (see research experience). Lead recitation for STAT 1045 (introductory statistics with elements of algebra) courses 2 times per day (50 min each). Duties included providing solutions of homework problems, reinforcing/explaining concepts learning in class, grading quizzes/exams, and proctoring quizzes/exams.

## May 2016-December 2016

Job Title: Private statistical consultant

<u>Pay Rate</u>: \$18.00/hr <u>Hours/wk</u>: 10-15

Supervisor: Martha Archuleta (385-646-5576) and Lacy Petersen

<u>Duties</u>: 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 using LaTeX.

#### August 2014-Current

Job Title: Private Statistics Tutor

Pay Rate: \$15-20 / hour

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

<u>Job Title:</u> **Statistics Tutor, Academic Success Center** Address: 5200 Old Main Hill, Logan, Utah 84322-5200

Pay Rate: \$9.00 / hour

Hours/wk: 4-9

Supervisor: Dennis Kohler (435-707-0726, work) 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.

## January 2012-August 2015

Utah State University (Department of Wildland Resources)

Job Title: National Science Foundation Graduate Research Fellow

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

Pay Rate: \$2666 / month Hours/wk: 20+ hrs/week

<u>Advisor</u>: Dr. Kari Veblen (1-435-797-3970, work) <u>Dates of Employment</u>: 05/30/2012-05/30/2015

<u>Duties</u>: Development and implementation of NSF-funded research project, field data collection, analysis, writing thesis and submittal of two research papers to refereed journals (see research

experience).

## April 2011-October 2011

Great Basin Institute

Job Title: Supervisor Botanical Survey Crew

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

Pay Rate: \$17.00/hr Hours/wk: 40+

Supervisors: Jennifer Brickey (702-858-0904) may contact; Mike Frank (702-371-4431) may

contact (USDA Forest Service); Jerry Keir (775-846-9310) may contact

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

<u>Duties</u>: 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. I was responsible for partner coordination, weekly progress meetings with the overall project supervisor, and project logistics. I used ArcGIS to create maps from field data and conduct basic analysis of data (total counts and phenology information) and wrote final reports for the US Forest Service Survey. I planned weekly field surveys for my crew, coordinated fieldwork with US Forest Service employees, and arranged for other crew trainings as needed. Finally, I was responsible for timesheets, expense accounts and truck mileage logs.

<u>Accomplishments:</u> Successfully completed systematic and intuitive control surveys of 500 acres of rugged WUI terrain; areas were at 7000-10000ft in elevation, and slopes often ranged 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 (530-279-6101, work); Curt Booher, BLM Park Ranger (405-564-3700), may contact; Kathryn Dyer, Range Conservationist (775-722-2787), may contact

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

Duties: Work was variable and 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, and assisting with Seeds of Success monitoring and seed collections. In addition, work included conducting rangeland health assessments using line-point-transect methods, range utilization mapping, and range compliance monitoring. Other duties included assisting with field work at a week-long archaeological excursion and conducting compliance monitoring during Burning Man (a large festival with 50,000 people) with the Bureau of Land Management. Work was mainly field-based but also included data entry, creating management reports, generating maps with ArcGIS 9.3 Software, and downloading GPS data from a handheld device to a computer. I used basic field equipment for most field work such as a digital camera, GPS unit (Trimble, with Terrasync programming), compass, and tape measures. Weather, road, and field conditions were often harsh. I was required to drive over poorly mapped terrain with a heavy-duty manual or automatic vehicle and often hiked 10+ miles a day in hot weather and steep terrain. This internship also included a 7 day training workshop at the Grand Canyon. Topics covered were: Seeds of Success field procedures and background, statistical analysis for data in the ecology field, 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). Increased skill and ability to drive over extremely rough dirt roads with a heavy duty 4x4 vehicle (manual and automatic). 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

Pay rate: \$1,100 biweekly salary

Hours/week: 50-55

Supervisor: Dylan Levy-Boyd, biologist (208-423-4835), may contact

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. I identified vegetation to species or genus level and determined other characteristics of the vegetation (native/non-native, annual/perennial). I also took several pictures with a digital camera at each well site, identified the dominant type of plant community present, and made basic management recommendations depending on site conditions. Work required use of a compass, tape measures, maps, digital camera and a Trimble GPS unit with TerraSync programming. Other duties included navigating through oil fields with a map, working alone for long hours in various weather conditions, recording data and wearing personal protective equipment (fire-retardant clothing, steel-toed boots, eye protection, gloves, and hard hat).

<u>Accomplishments:</u> 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 by myself 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

Pay rate: \$15.00/hr Hours/week: 40+

Supervisor: Penelope Morgan, UI Faculty (208-885-7507), may contact

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

<u>Duties</u>: Collecting vegetation and soil data related to fire ecology in the Pacific Northwest, eastern Oregon, and northern Idaho using field equipment such as a compass, handheld Trimble GPS, and other measuring devices. Specific duties included identifying vegetation (native and non-native) to species level, measuring tree heights and soil porosity, assessing burn severity, and recording field data. Other duties included measuring tree diameters, assessing tree canopy class and condition, taking photo points with a digital camera, and collecting fuels data according to protocol. If vegetation could not be identified in the field, I labeled, collected, and identified the specimen using a taxonomic key. Position also involved managing crew time to accomplish duties, camping in remote locations with limited resources for up to 7 days in a row, setting up field plots, extensive traveling throughout WA, ID, and OR, and working long hours in inclement weather. I also had the responsibility of helping others identify vegetation, and I shared plant identification techniques to help them complete fieldwork.

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. I learned how to successfully use a compass, densiometer, and laser for calculating distances. I made sure all of the duties assigned by the supervisor were accomplished by the end of the day. I gained the ability to set up permanent field sampling plots using a compass and to successfully drive through rugged terrain using 4x4 vehicles.

#### *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

Pay rate: Fire GS-04062-04

Hours/week: 40+

Supervisor: Todd Demasters, Engine Captain, Idaho City Ranger District (208-392-3720), may

contact

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

<u>Duties</u>: 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, wearing personal protective equipment (earplugs, boots, long pants and shirt, helmet, safety goggles, chaps, gloves) when required, 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

Pay rate: Recreation GS-03 and GS-02

Hours/week: 40+

<u>Supervisor:</u> Everardo Santillan, Trail Crew Supervisor (208-392-3733); may contact 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.

<u>Accomplishments</u>: 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. In addition I led safety discussions and helped them 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

<u>Address</u>: 2621 Augusta Street, Eugene, OR 97403 <u>Pay rate</u>: \$7.04/hr (2004) and \$6.90/hr (2003)

Hours/week: 40+

<u>Supervisor:</u> Larry Dompierre, Recruitment Officer (541-349-5055 ext. 233); may contact <u>Dates of employment</u>: 06/04/2004 - 07/18/2004 (Backcountry Leadership Program) and 06/10/2003 - 07/16/2003

<u>Duties:</u> 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.

<u>Accomplishments</u>: 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

Pay Rate:\$8.50/hr

Hours/wk: part-time, variable

Supervisor: Matt Wells (301-908-8591), may contact

<u>Dates of Employment:</u> 3/9/2011 to 4/30/2011

<u>Duties:</u> 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 product, educating customers about store promotions and offers, and occasional custodial jobs. <u>Accomplishments:</u> 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

Pay rate: 8.25/hr

Hours/wk: variable, part time

Supervisor: Teri Garvin, Colby Selekof, (208-322-1141), may contact

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

<u>Duties</u>: 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.

<u>Accomplishments</u>: 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

Hours/wk: 3-4

Supervisor: Melissa Bixby (208-388-4687)

Dates: 2/2011 – 4/2011

<u>Duties:</u> 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

Hours/wk: variable

Supervisor: Kristin Lundstrom (208-493-2530)

Dates: 2/2011 – 4/2011

<u>Duties:</u> Work on botanical projects associated with the Foothills Learning Center.

<u>Accomplishments:</u> 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

Pay rate: N/A Hours/week: 4-5

Supervisor: Tim Severa, Director (208-344-5501), may contact

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

<u>Duties</u>: 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 more 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

Pay rate: N/A Hours/week: 8-10

Supervisor: Ann Debolt, Natural Communities Specialist (208-577-8137), may contact

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

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

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

## **Special Honors and Distinctions**

#### Academic Awards

#### *Graduate fellowships and grants:*

- EPScOR GRA (awarded summer 2017)
- 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)

#### Athletic Accomplishments

#### 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)

#### Sanctioned races

#### 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, 1st place Women's Division

#### 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, 7<sup>th</sup> place overall
- Wellsville Duathlon, Wellsville, UT: 1st place Women's Division

#### 2012

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

#### 2011

- Robie Creek Half Marathon, Boise, ID: 1st place Women's Division
- Zeitgeist Half Marathon, Boise, ID: 1st place Women's Division
- Boise City of Trees Marathon, Boise, ID: 1st place Women's Division, 2nd place overall
- Las Vegas Forest Challenge, Las Vegas, NV: 1st place overall
- Fire Department 10k, Las Vegas, NV: 1st place Women's Division, 2nd place overall
- YMCA Christmas Run, Boise, ID: 1st place Women's Division

#### 2010

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

#### 2009

- Lewiston Duathlon, Lewiston, ID: 1st place Women's Division, 3rd place overall
- Palouse Sprint Triathlon, Moscow, ID: 1st 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 Madness11k Run, Moscow, ID: 1st place Women's Division, 3rd 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: 1st place Women's Division
- Snake River Canvon Half Marathon, Lewiston, ID: 1st place Women's Division

#### 2007

- Beezley Burn Mountain Bike Race, Ephrata, WA: 1st place Women's Division
- Spokane River Run, Spokane, WA: 1st place Women's Division
- Hells Canyon 25k Run, Pittsburgh Landing, ID: 1st 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: 1st 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

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