

KEVIN GALLAGHER

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PROFESSIONAL EXPERIENCE

NASA DEVELOP (Fort Collins, CO)

Research Consultant, Colorado River Basin Water Resources II, Fall Term 2017

- Research focus on invasive species presence and impacts on water resources in the Colorado River Basin
- Utilize NASA Earth Observations, ArcGIS, and Software for Assisted Habitat Modeling (SAHM) for deliverables
- Co-author of technical report:
- Walker, K., Martin, C., Carver, D., Davis, K., & Gallagher, K. (2017). Utilizing NASA Earth Observations to Evaluate the Distribution of Russian Olive and its Impact on Evapotranspiration in the Upper Colorado River Basin. Fort Collins, CO.
- Ground truthing of remote sensing data via forest inventory
- Final deliverables of presence and ET maps to inform and evaluate ongoing restoration and management efforts
- Produce educational video about research project for public information, available on YouTube

Institute for Environmental Solutions (Denver, CO)

Graduate Intern, August 2016 – January 2017

- Graduate Intern with Chemical Footprint Project (CFP)
- Research and provide scientific solutions for prevention of contaminants of emerging concern in wastewater
- Utilize community-based social marketing to foster sustainable behavior change
- Conduct grant inquiries and applications
- Operate social media platforms and compose articles for IES newsletter

Odd 13 Brewing Company (Lafayette, CO)

Assistant Brewer, April 2015 – September, 2017

- Lead operator and volunteer manager for production packaging facility
- Operate 30 bbl (production), ABE 2-vessel brew house and 10 bbl (taproom) custom-made brew house
- Perform cellaring duties on 10, 20, 60 bbl fermenters/bright tanks
- Lab duties: Yeast cell-counts, viability tests, and identify infection from wild yeast and bacteria

Epic Brewing Company (Denver, CO)

Packaging Operator, November 2014 - March 2015

Assistant Brewer, March 2015 – April 2015

- Operate, CIP, and maintain a 4-head Wild Goose canning line and 6-head Meheen bottling line
- Lead bottling, canning, and kegging runs of up to 100+ bbls
- CIP of 40, 80, 120 bbl bright beer tanks
- Assist with brewing process on a 20 bbl, 5-tank JVNW brew house

Barefoot Gardens (Doylestown, PA)

Farm Assistant, March 2013 – May 2014

- Plan and execute daily work activities for 6-acres in fruit, vegetable, and herb production
- Insect/Disease identification, management, and control
- Till, cultivate, and transplant crops with John Deere 4500

- Maintain and promote soil health through sustainable, low input methods
- Plan and manage organic hops production for use in brewing and herbal medicine
- Coordinate and manage volunteers to assist maintenance, harvest, and post-harvest handling
- Conduct sales of produce and provide customer support at Doylestown Farmer's Market

Delaware Valley College Horticulture Department (Doylestown, PA)

Farm and Arboretum Assistant, September 2011 – March 2013

- Care for established planting beds by mulching, weeding, pruning and trimming around walks and walls
- Orchard maintenance for student training and educational pick-your-own
- Co-manage transitional organic farm including planning, record keeping, production and certification process
- Co-manage 2-acre fruit and vegetable garden for Hope of the Harvest

AGRICULTURE INTERNSHIPS AND RELATED EXPERIENCE

Lombard Central Presbyterian Community Garden (Philadelphia, PA)

Consultant, Summer 2014

- Plan, design, and maintain a community garden featuring vegetables, fruits, and flowers

Seaburst Farms | Olive Creek Farms (Columbus, NJ)

Greenhouse Assistant, Summer 2011- Summer 2012

- Seed, transplant, maintain, harvest, and package hydroponic basil and lettuce
- Scout produce for pest and weed identification
- Monitor and regulate nutrients for hydroponic system
- Plan, design, and manage garden for commercial heirloom tomato production

Gravity Hill Farm (Titusville, NJ)

Farm Intern, Spring & Summer 2011

- Greenhouse duties—produce soil mix, seed, thin, water, and harden-off transplants
- Prepare beds and irrigation for direct seed and transplant of vegetables, small fruits, and flowers
- Harvest, post-harvest handling, and sale of produce at on-site farm market
- Plan and operate an heirloom tomato grafting project

Beech Hill Farm (Mount Desert, ME)

Student Intern, Summer & Fall 2010

- Harvest and post-harvest handling of vegetables for sale at on-site farm market
- Hoop-house construction

Chickadee Creek Farm (Pennington, NJ)

Volunteer, Summer 2009

- Direct-seed, maintain weeds, and harvest vegetables for a start-up market garden

Honey Brook Organic Farm (Pennington, NJ)

Farm Intern, Spring & Summer 2009

- Greenhouse operations—vacuum seed and direct-seed flats, thin, water, and harden-off transplants
- Operate tractor to till and cultivate beds
- Transplant fruits, vegetables, and flowers and maintain beds through hand and mechanical weeding
- Package produce for CSA members and operate farm stand for CSA pick-ups and pick-your-own

EDUCATION

Colorado State University (Ft. Collins, CO)

Master of Natural Resources Stewardship: Ecological Restoration

Anticipated graduation May 2018

- Master's program in natural resources education with a specialized resource management component
- Specialization in Ecological Restoration
- Curriculum includes five core areas of natural resources study:
 - Ecology
 - Sampling Methods and Analysis
 - Policy
 - Economics
 - Professional Development
- Additional study in natural resource applications of remote sensing and GIS

Delaware Valley College (Doylestown, PA)

B.S. in Horticulture: Commercial Crop Production, 2011-2013

- Foundational courses:
 - Commercial Vegetable Production
 - Commercial Fruit Production/Small Fruit Culture
 - Agroecology
 - Horticultural Techniques I/II
 - Plant Physiology and Pathology
 - Integrated Pest Management
 - Soil Science
- Experiential learning in small to large-scale agricultural enterprises and related fields
- Hands on experience with horticultural techniques in the field and greenhouse environments
- Research in sustainable crop production
- Participant in Precarious Alliance forums on Energy (2012) and Water (2013)
- Senior seminar research project focus on urban agriculture, from soil remediation to social justice