CASEY GHILARDI

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EDUCATION

University of Missouri   *November 2016*
M.S. Natural Resources - Forestry
Thesis: Validation of the Fire and Fuels Extension of the Forest Vegetation Simulator (FVS) within Ozark ecosystems

Stockton University   *May 2013*
B.S. Environmental Science, Magna Cum Laude, Program Distinction

TECHNICAL STRENGTHS

Computer Languages	R, Python
Databases	Microsoft SQL, SQLite, PostgreSQL
Tools	ArcGIS, QGIS, SAGA, GRASS, WhiteboxTools, Google Earth Engine

EXPERIENCE

PotlatchDeltic   Spokane, WA
Forest Biometrics Analyst   *December 2018 - Present*

· Manage the annual field inventory project including interacting with contractors and completing internal QAQC processes
· Improve existing processes by evaluating vendors and collaborating with other departments as needed
· Present as part of an internal journal club summarizing recent scientific literatures

PotlatchDeltic   Spokane, WA
Forest Inventory Analyst   *November 2016 - December 2018*

· Developed pre-processing scripts for point cloud, vector and raster data sets using GDAL and OGR command line functions
· Analyzed vegetation patterns using Landsat and Sentinel imagery using QGIS and Google Earth Engine
· created and maintained a local PostgreSQL instance loaded with statewide vector and tabular soil data
· Validated large scale forest inventory during company merger using publicly available datasets
· Ran forest growth simulations to generate outputs for a large scale optimization model
· Conducted forest inventory field audits to ensure quality of contractor deliverables
· Supported real estate and operations partners with statistical expertise

Purdue University   West Layfayette, IN
Vegetation Technician   *May 2014 - August 2014*

New Jersey State Forestry Services   New Lisbon, NJ
Forestry Assistant   *October 2012 - May 2014*

· Developed forest management plans for state owned lands in collaboration with other state agencies
· Created automation scripts using python to convert between database schema
· Developed and maintained vector and point data using ArcGIS and GPS

Woodrat Monitoring Technician   Indiana University of Pennsylvania
Indiana, PA   *June 2013 - August 2013*

New Jersey State Forestry Services   New Lisbon, NJ
Forestry Intern   *January 2013 - May 2013*