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| CURRICULUM VITAE  **Hayden William Bock**  Phone: 814-852-8053  Email: [hwb44@cornell.edu](mailto:hwb44@cornell.edu) | | | |
| **Education** |  |  |  |
| **Institution** | **Degree** | **Year** | **Field of Study** |
| The Pennsylvania State University | B.S. Plant Science  GPA: 3.88  Dean’s List all semesters | 2020 | Plant Science  (Agroecology focus)  *Minors*: Agronomy, Entomology |
| **Work History** |  |  |  |
| 08/2020 to 12/2020 | Graduate Teaching Assistant, Dr. Linda Rayor’s ENTOM 3150 Spider Biology. | | |
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| 05**/**2018 to 8/2020 | Undergraduate research assistant, John Tooker Lab,  The Pennsylvania State University, University Park, PA. | | |
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| 01/2018 to 7/2020 | Undergraduate research assistant, David Eissenstat Lab,  The Pennsylvania State University, University Park, PA. | | |
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| 08/2019 to 7/2020 | Undergraduate research assistant, Michaela Centinari Lab,  The Pennsylvania State University, University Park, PA. | | |
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| 05/2019 to 05/2020 | Student agronomy research technician, Russell E. Larson Agricultural Research Station, Rocksprings, PA. | | |
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| 05/2015 to 04/2019 | Merchandiser at TJMaxx, State College, PA. | | |
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| **Grants Received** |  |  |  |
| 2019 | Undergraduate Travel Grant, Department of Undergraduate Research, PSU $300.00 | | |
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| 2019 | Undergraduate Travel Grant, College of Ag Science, PSU $300.00 | | |
| 2019 | Undergraduate Travel Grant, Dept. of Entomology, PSU $400.00 | | |
| 2019 | Undergraduate Research Grant, PSU $1,500.00. | | |
| 2019 | Erickson Discovery Grant, PSU $3,500.00. | | |
| 2018 | Undergraduate Research Grant, PSU $2,000.00 | | |
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| **Scholarships** |  |  |  |
| *Mississippi State University* |  |  |  |
| 16/17 | Academic Success Scholarship | $16,000.00 |  |
| *The Pennsylvania State University* |  |  |  |
| 19/20 | Gerhart Crop and Soil Scholarship | $1,500.00 |  |
| 19/20 | Lawrence F Marriot Scholarship | $2,496.00 |  |
| 18/19 | Fehnel Scholarship in Agroecology | $409.00 |  |
| 18/19 | Lawrence F Marriot Scholarship | $1619.00 |  |
| 18/19 | PSU College of Ag Scholarship | $1000.00 |  |
| 18/19 | PSU Ready to Succeed Scholarship | $2000.00 |  |
| **Relevant Skills** |  |  |  |
| Soil Science | Soil sampling, soil judging, elemental analysis, ICP-OES, Mehlich 3 and KCL extraction (colorimetry and spectrophotometry), nitrogen modeling software (Encirca by Pioneer/Corteva), bulk density, infiltration | | |
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| Agronomy | Crop scouting for corn, soybeans, small grains (nutrient deficiencies, insects, diseases), staging, yield estimation, tractor operations and planter calibrations | | |
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| Root ecology | WhinRhizo software, AMF colonization calculations | | |
| Entomology | Crop scouting, insect rearing, identification, taxonomy and morphology, pinning and collection maintenance | | |
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| Statistics | Rstudio, SAS, Minitab software | | |
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| **Organizations** |  |  |  |
| JUGATAE Cornell Entomology Graduate Student Organization | |  |  |
| Entomological Society of America | |
| Gamma Sigma Delta Academic Honors Society, Penn State University | |  |  |
| Keystone Trail Association, volunteer trail maintainer | |  |  |
| PA Trail Dogs, volunteer trail maintainer | |  |  |
| **Volunteerism** |  |  |  |
| Trail Maintainer | PA DCNR & PA State Forests | |  |  |
| March 2017- Present; Hours: 80 | |  |  |
| Maintains a 2-mile section of trail in the Moshannon State Forest that is utilized by a local trail race each summer as well as hikers year-round. Responsibilities include: Erosion maintenance, tree removal, and trail building. Records hours and tasks for DCNR yearly publication on-trail maintenance. | | | |
| Assistant Coach | West Branch High School Cross Country | |  |  |
| August 2017- September 2018; Hours: 60 | |  |  |
| Assists Head Coach, Jane Catanzaro, with practice and race day operations associate with the cross country team. Responsible for recording individual performances of athletes, as well as supervising and motivating student athletes and organizing daily practices. Unpaid position. | | | |
| Grounds Crew | Sanderson Farm Classic | |  |  |
| October 26th-30th 2016; Hours: 36 | |  |  |
| Maintained a consistent and aesthetically pleasing playing surface for PGA tournament players throughout the tournament. Jobs included bunker raking, leaf blowing, watering greens, temperature readings, etc. | | | |
| **Research and Publications** | |  |  |
| 1. Fleishman, S., **Bock, H.,** Eissenstat, D.M. (2020). Influence of cover crops on deep soil environment in Noiret vineyards. (in preparation, Agriculture, Ecology and Environment) 2. Yates, C., Guo, J., Bell, T.H., Fleishman, S., Bock, H., Trexler, R., Eissenstat, D. M., Centinari, M. (2020). Tree-induced alterations to soil properties and root-associated microorganisms following 23 years in a common garden. (Plant and Soil, in review) | | | |
| 1. **Bock, H.,** Banizewski, J., Bruns, M.A, Tooker, J. (2020). Influences of planting density on granivory in polyculture cropping systems. (in progress) | | | |
| 1. Bock, H., Fleishman, S., Eissenstat, D.M. (2018) Effects of red fescue cover crop on grapevine root distribution. (unpublished undergraduate project) | | | |
| **Presentations** |  |  |  |
| 1. Bock, H. W. Penn State Undergraduate Research Fair: Effects of root morphology and mycorrhizae types for tree species on soil nutrient properties. Undergraduate Research Expo, University Park, PA, 17 April 2019 | | | |
| 1. Bock, H. W., Banizewski, J., Bruns, M., Tooker, J. Influences of planting density on granivory in polyculture cropping systems. Entomological Society of America, St. Louis, MO November 16-20, 2019 | | | |
| 1. Bock, H.W., Fleishman, S., Eissenstat, D.M., Centinari, M. Influences of Cover Crops on Deep-Soil environments in Noiret Vineyards. Will present at University Park, PA April 2020 | | | |
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