

Excellence in Teaching Portfolio

Derek Denney

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Franklin College of Arts and Sciences

Department of Genetics

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Dear Selection committee:

I am writing to nominate Derek Denney for the Center for Teaching and Learning's Excellence in Teaching Award. I strongly recommend Derek for this award, as he has demonstrated immense aptitude for teaching and mentoring. Derek is a fifth year Ph.D. candidate in Plant Biology who is conducting dissertation research focused on plant ecophysiological responses to novel climates. While in graduate school, Derek has <u>excelled in teaching</u>, both in the classroom and in his mentoring of undergraduate researchers in the lab. He has taught extensively, both here at UGA and at Washington State University where he earned his M.S. degree. Derek has actively sought out opportunities to grow as an instructor and mentor. He has the intellectual strengths and the teaching expertise to excel in a future faculty position in which he will conduct cutting-edge research, mentor emerging scientists, and teach in a classroom setting. Derek is deeply committed to broadening participation in science and actively works to recruit, train and teach students from historically marginalized backgrounds.

At Washington State, Derek taught over 400 students in 18 lab sections. During that time, he undertook an exhaustive revision of the organismal biology lab curriculum to focus on inquiry-based learning approaches. He also wrote sections of the lab manual that was implemented in 2016. While at UGA, Derek has served as a laboratory instructor for introductory Biology, a teaching assistant for an introductory plant biology course, and a lecture TA for an upper-division plant ecology course. He consistently receives favorable evaluations and comments from the students, as well as high praises from the faculty.

Most importantly, the former department head of Plant Biology, Lisa Donovan, entrusted Derek with the co-instruction of PBIO 4650/6650, a plant-taxonomy course for upper-level undergraduate and graduate students. After Dr. Wendy Zomlefer, a faculty member in Plant Biology, retired on short notice in 2019, Professor Donovan sought out Derek to co-instruct PBIO 4650/6650 owing to his well-deserved reputation as an **exceptional educator**. Dr. Zomlefer did not provide many course materials that Derek could use; therefore, Derek designed the curriculum for PBIO 4650/6650 from scratch. He and his fellow grad student co-lecturer, Mark Zenoble, revitalized the lab and lecture material to incorporate active learning strategies. For example, Derek utilized think-pair-shares, in-class discussions, and TopHat engagement questions to encourage student involvement and participation. These strategies helped students feel comfortable and involved in the course, as evidenced by student reviews.

Additionally, Derek implemented a mini Course-based Undergraduate Research Experience (CURE) project to provide students with authentic experience in botanical methods. This project incorporated iNaturalist - an online community that documents biodiversity worldwide – with a plant collection exercise in which each student created 15-35 herbariumquality voucher specimens, depending on their class standing. Over the course of the semester, students learned how to identify, collect, and prepare specimens to deposit in herbaria and created research-grade datapoints for the scientific community. These skills can enhance employment outcomes for students. At the end of the semester, the students reflected on their progress and the importance of the techniques they learned. For example, the students



determined classical plant collecting techniques are helpful for identification but digital records enhance specimens by providing

community context and more precise locality data through image metadata. He and his coinstructors presented this project at the national Botany conference in 2021 and have been compiling the results for publications.

Derek taught PBIO 4650/6650 in 2020 and 2022. The course has gained popularity across multiple departments, including Biology, Plant Biology, Ecology, and Entomology. During Derek's involvement in the course, enrollment approximately doubled. He has consistently been met with high praise from students and the faculty who oversaw his efforts, Drs. Dorset Trapnell and James Leebens-Mack. His enthusiasm for the subject is contagious! After completing the course, multiple students enrolled in research opportunities in the UGA herbarium and pursued research in Plant Biology laboratories. Additionally, his efforts in the course have helped him be nominated for the Wilbur Duncan Award, the highest award for graduate students in PBIO.

In addition to teaching, Derek is a highly effective mentor of undergraduate researchers. During his time at UGA, he has mentored 14 undergraduate students, one visiting REU student, and a high school student participating in the YoungDawg program. In all cases, Derek explains the rationale behind the protocols that we use and answers students' questions clearly. Derek engages the students in detailed conversations about the design of the experiment, including describing his research questions and specific hypotheses and predictions, and providing the students with solid justifications for the research. Outside of the context of research, Derek has worked extensively with the students to help them achieve their academic and career goals, including coaching for job and graduate school interviews. He has helped students prepare for medical school, find faculty mentors for graduate school, and obtain employment post-graduation. Derek cares deeply about the students he works with and is an excellent role model. He knows teaching takes place in a variety of settings, including in the laboratory, so he consistently works to improve his abilities to mentor and help others. Derek enrolls in teaching and mentoring workshops to gain new insight and best practices to mentor and work with others.

In 2022, Derek earned a place as a member of the highly competitive UGA's Future Faculty Fellows Program. This program trained Derek in faculty responsibilities and teaching strategies. As a 3FP, Derek worked closely with the Center for Teaching and Learning to improve his teaching and mentoring capabilities. He spoke highly of his involvement in the program and actively recruited his peers to join the 2023 cohort. The training he received as a 3FP was invaluable and will serve him as he pursues a career that incorporates teaching. I am confident that Derek will continue to excel in his career. His passion is education and his students have benefitted immensely from his tutelage. Derek is extremely meritorious of this award. Please do not hesitate to contact me if questions arise about his nomination. Sincerely,

anderson

Jill Anderson, Ph.D. Associate Professor Department of Genetics and Odum School of Ecology University of Georgia Athens, GA 30602 Email: jta24@uga.edu

Personal Statement

My name is Derek Denney and I am a 5th year PhD student in Plant Biology. I am writing to be considered for UGA's Excellence in Teaching Award. I am a talented and experienced teacher, and I am actively engaged in enhancing my teaching qualifications to further influence students' growth and development—whether it be in scientific inquiry or other career paths.

As a graduate student, I have taught over 600 students at two institutions. I've taught in online, in-person, and hybrid formats. Regardless of the setting or the course, I've learned that no two classrooms are the same. When I first began teaching at UGA, I quickly learned that to be a successful instructor and facilitator, I had to engage students with the material and help them become focused in ways I had not encountered at my previous institution. This required my continual improvement as an instructor and finding innovative ways to increase student learning outcomes. To that end, I enrolled in courses that would increase my teaching acumen with the desire to complete UGA's Interdisciplinary Graduate Certificate in University Teaching.

Graduate teaching experiences in the Department of Plant Biology are generally limited to lab teaching assignments. Grad students only get opportunities to lecture outside of a lab when a faculty member cannot teach for some reason; therefore, it is a rare occurrence to lead a course as a graduate student. I have been fortunate to lead a course twice. In my situation, I was asked to co-lecture an upper division Plant Taxonomy course on short notice, as a faculty member was retiring for health reasons, leaving my fellow grad student co-instructor and I with few teaching materials. This allowed us to make significant updates to the curriculum. In Spring 2020, I implemented projects and assignments I had developed as part of my certificate in University Teaching coursework. The realization of the project was cut short as the COVID-19 pandemic interrupted our in-person teaching model. Nevertheless, I gained experience outside the normal scope of graduate teaching, and I was energized by the opportunity to contribute to the curriculum.

In Fall 2021, I received an NIH T32 training fellowship, which prevented me from teaching that academic year. However, this fellowship provided multiple mentoring workshops, which further honed my teaching toolkit. Additionally, I frequently met with the graduate students who were teaching Plant Taxonomy in Spring 2021 to brainstorm and share my teaching materials. We used my teaching project to collect data and present results at a national Botany conference. In Spring 2022, I was asked to teach Plant Taxonomy again. During this second iteration, my co-instructor and I implemented a course-based research module that enabled students to collect real data for scientific analysis. This project was exciting and fulfilling to me, my co-instructor, and the students. This portfolio will elaborate on this project, and outline ways in which I have gone beyond the normal graduate student teaching duties by prioritizing my professional development in teaching, providing mentorship to students, and conducting outreach on-campus.

These teaching experiences influenced my desire to be a faculty member. My goals were further solidified when I became a member of the Future Faculty Fellows Program, where I gained skills that I look forward to implementing in future courses. I am enthusiastic about teaching and helping others grow, especially in the exciting realms of science! I appreciate your consideration of my application for the Excellence in Teaching Award.

Teaching Philosophy Statement

I value personal growth and development, constantly seeking out knowledge, and I take great joy in supporting others as they pursue their personal aspirations. I strive to support others with compassion, empathy, and kindness. These core values motivate me, and they are reflected in my approach to teaching. I believe enthusiasm for learning flourishes in environments where students are encouraged to be curious learners, appreciated for their diversity of thoughts and experiences, and welcomed with feelings of safety and belonging. My role as an educator is to create these environments and actively improve my skills as a facilitator and educator.

Advancing my teaching practices – The variety of my teaching experiences – from labs to lectures and in online, in-person, and hybrid formats – has shown me that no two classrooms are the same. Continual learning and application of new teaching tools and skillsets is essential to better accommodate the needs of students. This motivates me to adapt my teaching to new strategies and technologies, and to pursue classes on effective teaching strategies, implementing new curriculum, and focusing on students. I seek corrective feedback from as many avenues as possible, and I endeavor to approach teaching with flexibility. I draw value from disciplines outside my own, and I seek out a variety of voices, from within and from without my field, to gain insights on best practices in teaching. Teaching is not just imparting knowledge but being engaged in a constant learning experience to become a better teacher.

Creating an engaging environment – My role as an instructor is to engage with students to facilitate their own curiosity in learning. I implement a variety of approaches to inspire students' active learning. Employing active learning strategies allows students to synthesize information, to analyze their ideas with others, and to get to know their peers. It is not only information, but also ideas in contact that enhance learning. My goal is to make every classroom interaction one in which students are engaging with one another and with the material. Students become independent seekers of knowledge when they engage in the course material in this manner, creating a more meaningful learning experience.

Appreciating diversity in the classroom – I recognize that each student's identity and background influence the learning process. I seek to foster an environment where students can be authentic while they engage with everyone in the class, including me. To create welcoming environments, I share my background, challenges, and educational path transparently with students. I learn every student's name. I talk with students conversationally before I begin a lecture. I invite students to share their struggles and their successes with me. I assign group work by carefully considering each student and their abilities to create balanced teams that maximize each students' strengths. All these methods help me humanize our learning environment and open the floor to students to share their diverse perspectives.

Teaching beyond the classroom – Learning and teaching extend beyond the classroom. I employ the principles outlined above to mentoring opportunities outside of formal classroom settings. As a mentor, I act as a sounding board for student concerns. I practice active listening, empathy, and asking valuable questions as ways to help mentees learn in "real-world" situations. When I mentor, I strive to create an environment in which mentor and mentee can learn together.

As I have applied these principles in teaching, I have seen an increase in student satisfaction with my teaching, I have learned and used new teaching skills, and I have been a more effective mentor and instructor.

Description of Courses Taught

UNIVERSITY OF GEORGIA

Instructor of Record

PBIO 4650/6650 - Plant Taxonomy

Enrollment: 27-30 students, including undergraduate and graduate students **Description**: This course was originally in person but was interrupted by the COVID-19 pandemic and became an online course in 2020. In 2022, we offered a hybrid format with lectures available online and in-person. The course taught principles of taxonomy, systematics, land plant evolution, and field botany. It included plant identification and plant collections. The course consisted of a lecture and lab portion.

Responsibilities: As co-instructor, I designed and implemented a new curriculum with another grad student. We designed all the materials for the lectures and labs, as well as the exams and projects. This included writing the syllabus, planning the lecture and lab schedules, and purchasing required materials for the course. We graded all assignments and provided final grades. I co-taught the entire course in the spring of 2020 but only co-taught the lectures in spring 2022, as a third graduate student taught the lab portion. We created a research project that introduced students to modern and classical plant taxonomy research as well as generated data for scientific use.

Laboratory Teaching Assistant

BIO 1108L – Organismal Biology Lab

Enrollment: 24 students per lab section; 2 lab sections

Description: This was an entry-level biology course designed for science majors. It was a writing-intensive lab course designed to teach basic scientific writing, experimental design, and a variety of lab techniques.

Responsibilities: As a lab TA, I was responsible for an introduction lecture and assisting the students as they completed their experiments. I graded all their assignments, presentations, and lab reports as well as led field trips to off-campus locations throughout the semester.

PBIO 3650 - Plant Ecology

Enrollment: 65 students

Description: This course was designed for upper-division science majors, primarily in plant biology or a related field. It included a lab component and lecture portions that were taught in a flipped classroom format.

Responsibilities: As TA for the lecture, I primarily answered questions students had about the material related to the lecture portion of the class. I served as a writing coach and read drafts of papers to provide individual feedback for their lab portion of the class. I also helped implement new teaching demonstrations with the instructor to explain plant ecology concepts.

Spring 2020, 2022

Fall 2019

Spring 2019

PBIO 2500E – Natural Communities of Georgia

Enrollment: 23 students

Description: This was an online course for students of any background. The course was designed to teach students about the natural communities of Georgia and their ecosystems. Students completed a nature walk term project and weekly online assignments and assessments. **Responsibilities**: As the TA for this course, I graded online discussions and engaged with students to dig deeper into the subject matter. I worked with students individually as they completed small-stakes assignments about their chosen location for their final project. I provided feedback on their projects and helped them with plant identification techniques.

WASHINGTON STATE UNIVERSITY

Laboratory Teaching Assistant

Biology 106 – Introductory Biology: Organismal Biology Enrollment: Each section had 25 students; I taught 3 sections each semester over 6 semesters (18 total lab sections)

Description: This course was an introductory course for science majors. It involved weekly labs with quizzes, experiments, and exams as well as a written report on a multi-week experiment. **Responsibilities**: I prepared quizzes, lectures, and assignments. I also graded the lab reports and provided feedback on early drafts. During my tenure, I helped develop a new, inquiry-based curriculum with active learning modules that was put in use in 2015. I also developed new portions of the lab manual for the students to use as part of this curriculum update.

Biology 372 – General Ecology

Enrollment: One lab section of 16 students

Description: This course was intended for upper-division biology students with weekly labs, field trips, semester-length experiments, and a final paper and presentation, as well as a lab notebook that was maintained throughout the semester.

Responsibilities: I taught a lab lecture weekly and helped students as they worked through their experiments. I lead field ecology field trips and taught lab and field techniques. I graded their coursework and provided feedback on their lab notebooks and experimental designs. I was also responsible for setting up and taking down the lab each week with two other TAs. Together, we designed the course materials and a new semester-length experiment.

Spring 2018

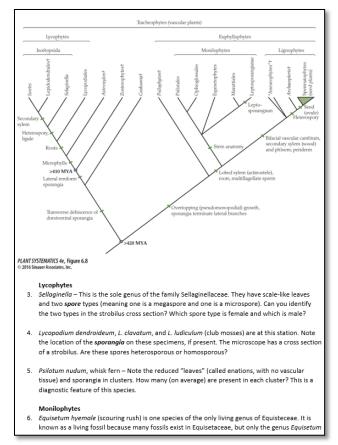
Sample Teaching Materials

Plant Taxonomy Labs

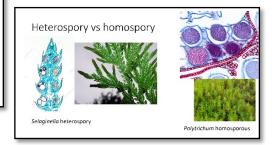
One of the purposes of the lab portion of PBIO 4650/6650 is to reinforce lecture materials. Traditional approaches instruct students to memorize terminology, species names, or plant descriptions. This approach often lacks a clear connection to the lecture and is daunting. I redesigned the labs to include an inquiry-based approach and center it around images or slides from lectures so students can make direct connections to their notes from class while in the lab. I include thought-provoking questions in the lab handouts to guide students towards the key traits used for plant identification. An example of a lab handout is shown on the right.

Additionally, students are given a knowledge check that reinforces their observations in the lab. These assessments are designed to have students explain key concepts in their own words and ultimately bridge connections between their observations and the lecture material (below left).

1. What are some similarities and differences between moss life stages that you noticed?	
2. Selaginella is heterosporous or has two spore types. What spore is the female and which spore type male? How do you know? How does this compare to other examples of male and female gametes or spores in biology?	is
3. How many sporangia did the <i>Psilotum</i> fern have?	
4. What do dimorphic fronds look like? How can you tell them apart?	
5. What is the difference between the gametophyte and sporophyte stages of a moss vs a fern?	



Finally, after a lab is completed, I utilize the same specimens from the lecture classroom to review and reinforce the material we covered in the lab. When possible, I bring in the live specimen as well as create a lecture slide for students to review (below right).



Plant Taxonomy Lectures

One of the greatest challenges with plant taxonomy is the sheer amount of material that could be covered in the course (over 300,000 species of plants!) coupled with unfamiliar terminology and latinized scientific names. It is easy for students to feel overwhelmed and lost as they navigate these foreign concepts and languages.

Challenges
What are some challenges plants would face as they move from aquatic to terrestrial areas?
Responses
A Reply
● Mi
Water currents also allow mobility.
Comments 🗖 0 🛛 🍅 1
🚨 Sy
ability to take in carbon dioxide through the air, the ability to take up water via roots
Comments 🗖 0 🛛 📫 1
单 Gov
Metabolism of CO2 and O2 systems would have to change drasticall y
Comments 🗖 0 🛛 🎁 1

objects and tasked students with organizing the images in small groups, resulting in discussion and exploration (right).

Additionally, at the end of every lecture, I have an anonymous online TopHat submission available for students to ask clarifying questions they may think of outside of class. As students study the material outside of class, they can ask questions which I will then be able to address in the following lecture. In my lectures, I incorporate multiple places to stop and assess student understanding of the material. I do this using low-stake knowledge checks and accomplish this with a variety of active learning strategies in small groups or in pairs. Whether online or in-person, technological tools are helpful to direct conversations. For example, I use TopHat to allow students to answer questions anonymously, in groups, or as part of a Think-Pair-Share activity (left). Another tool I enjoy using is Google Jamboard. Jamboards are great ways to incorporate students' ideas and discussions into lectures, and I can include the class's ideas into the handouts for everyone to review. The Jamboard pictured below is an example of student work. To investigate the concept of taxonomy, I provided pictures of



Finally, I realize much of the course relies on being able to recognize identifying traits. Memorization of this information can be difficult for students, especially when we discuss plants growing in other regions of the world that they may never experience in person. As much as possible, I make exams conceptual rather than about rote species memorization. Whenever plant identification is used on larger-stake assessments, I allow students to use their notes. I am also conscious of making exams equitable and accessible for everyone by considering a range of abilities.

Innovative Teaching Projects

Coupling iNaturalist with traditional plant collections to teach plant biodiversity Role: Co-lecturer

Course-based undergraduate research experiences (CURE) are innovative learning experiences that provide students with real opportunities to generate data for outside stakeholders. Using these principles, I developed a course project to give students experience generating plant taxonomy data that can be used outside of the classroom. I implemented the project in class with my co-instructor. The purpose of this experience was to familiarize students with historical and contemporary tools used by botanists and explore the benefits of each research method.

I tasked students with completing a physical plant collection and creating voucher specimens to deposit into an herbarium. Plant species were identified using online tools, dichotomous keys, local flora literature, and herbaria records. Students also recorded data on iNaturalist, an online repository of plant and animal observations, to document plant species. Students exchanged data to provide peer-reviewed feedback on how to improve their digital collections and received feedback from myself and my co-instructor. Additionally, the data was made available publicly so many students received feedback on iNaturalist from experts around the globe.

Each student collected data according to their interests. Some focused on plants in their backyard while others traveled to surrounding states or countries to collect their specimens. As part of the collecting process, students learned about permitting and were required to get proper permissions prior to collecting. To accommodate students who did not have access to technology or sufficient areas to search for plants, we organized optional class-wide collecting field trips.

Undergraduates were expected to collect at least 25 plants while graduate students were tasked with at least 50 specimens. As instructors, we helped students collect by using multiple low-stake assignments throughout the semester to ensure sufficient progress. This allowed students to get individualized feedback throughout the project as well as to increase the quality of the data generated by each student.

At the end of the semester, we used a lecture period to discuss the merits of the techniques. Students found a combination of modern and classical approaches increased their understanding of plant diversity and created more robust data for research. By the end of the semester, the students prepared their physical collections for deposit into the UGA herbarium and their research-grade iNaturalist observations had been made available to the broader scientific community. Collectively, the Spring 2022 students added 575 observations of 238 species to iNaturalist and produced over 400 physical specimens for deposit in the herbarium. These data are immediately available for research and have been used by 139 members of the broader

scientific community, as evidenced by this iNaturalist statistics image on the right.

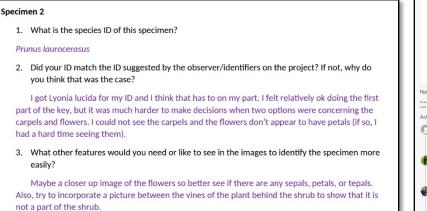
	0 4650/6650 202	2 Collections		Read More >
JANT	0, 2022 - MAY 13, 2022	AS PAN	MARTINE CON	
	575	238	139	27

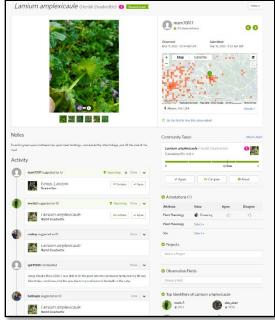
Sample Student Work

Digital plant collection

As part of this project, we asked students to identify their peers' plant specimens using dichotomous keys. I provided prompts to help the students consider how to improve the data. They then used these questions to address their peers on iNaturalist. An example of a student's work is below left. Below right is the online platform in which students interacted. This shows interactions from other scientists as well. In this example, a student provided their feedback and

other users responded with species verification to get the specimen to the highest quality possible – research grade.





Physical plant collection

Students collected physical specimens over the course of the

semester and used a variety of methods to identify the plants. Although not required, some students mounted their specimens on archival paper in preparation for herbaria usage, such as



this specimen to the left. All students turned in physical collections with labels documenting the species, its location, and other information about the plant and its environment. Through multiple low-stakes assignments, we provided feedback on the labels and identification of the specimens. In this case, the following feedback was provided to the student.

Feedback to student: This is a beautiful specimen! It is missing some information on the label. What plant family does it belong to? Where was it collected? You should include country, state, county, and other locality data in addition to the GPS coordinates. What other plants did you find growing near this specimen?

Professional Development and Training

Relevant Teaching Awards

Future Faculty Fellows Program 2022 The Future Faculty Fellows Program (3FP), sponsored jointly by the Graduate School and the Center for Teaching and Learning, is a year-long professional development program that brings together 15 innovative and dedicated teaching assistants from across campus to talk about, reflect upon, and improve their teaching, while contributing to their preparation for the academic job market and the rigors of their first faculty positions.

Pedagogical Coursework

GRSC 7770 – Graduate Seminar on Teaching (3 credits)	Spring 2019
WIPP 7001 – Pedagogy of Writing in the Disciplines (3 credits)	Spring 2019
EDIT 6150E – Introduction to Digital Learning (3 credits)	Summer 2019

Outreach and Community Engagement

Co-led Two CTL TA Cafés, Athens, GA	2022
Teaching Assistant Orientation Panelist, UGA	2022
Georgia Science and Engineering Fair, Senior Division Judge, Athens, GA	2021
Mentor, PlantingScience.org	2015 - Present
Mastering Plant Science Team Liaison, PlantingScience.org	2015-2018
Bilingual (Thai) biology tutor, Pullman, WA & Salt Lake City, UT	2014-2018

Mentorship

Caroline McConnell, 2022 – present	Erica Nash, 2021; UGA SUNFIG
Ron Saler, 2022 – present	(REU)
Nikhil Manocha, 2022- present	Pratik Patel, 2021 – 2022
Jane Aloi, 2022 – present	Ian Volmer, 2021 – 2022
Leena Patel, 2022	Manav Kumar, 2022
Edward Gildea, 2022	Kira Hills, <i>2021 – 2022</i>
Andrew Klutz, 2022	Zoe Bunch, 2021 – 2022
Saisri Tangirala, 2022; UGA	Anthony Lee, 2021
YoungDawg	Natalie Hogan, 2019 – 2020

Relevant Presentations

* indicates undergraduate mentee

- 1. *Patel, P., **Denney, D**., and J.T. Anderson. Anthocyanin absorption with varying [CO₂] concentration and temperature. *UGA CURO Symposium*, Athens, GA. 2022.
- 2. *Nash, E., **Denney, D**, and J.T. Anderson. Freezing Tolerance on an Elevational Gradient. Poster. *SUNFIG Genetics Symposium*, Athens, GA. 2021.
- 3. McNair, M., Zenoble, M., and **D. Denney**. Teaching Taxonomy in "Unprecedented Times." *Botany: Virtual*. 2021.

Evaluation of Teaching

	S 2019 [†]	F 2019	S 2020 **	F 2021	S 2022 * [†]
	BIO 1108L	PBIO 3650	PBIO 4650/6650	PBIO 2500E	PBIO 4650/6650
The assignments were useful for learning	3.08	3.72	4.71	4.83	4.67
The course challenged students to think and learn	3.38	4.00	4.64	4.83	4.67
The course was well-organized	2.72	4.00	4.58	4.83	4.67
The student was able to comprehend the material $^{\Delta}$	2.81	4.36	4.61	4.67	4.67
How would you grade this course?	2.99	4.45	4.84	4.83	4.84
The instructor comes prepared to teach each class period	4.31	4.45	4.80	4.30	4.92
The instructor uses class time effectively	3.97	4.27	4.74	4.50	4.75
The instructor communicates fairly and effectively	3.82	4.36	4.77	4.50	5.00
The instructor is enthusiastic about the material $^{\alpha}$		4.50	4.80	4.50	5.00
The instructor is willing to help students.	4.28	4.60	4.80	4.50	5.00
The instructor stimulates student's interests	3.40	4.32	4.80	4.50	5.00
The instructor's grading policy is fair	2.31	4.41	4.80	4.50	5.00
Encourages students to think for themselves $^{\alpha}$		4.50	4.80	4.50	5.00
The instructor grades quizzes and assignments fairly $^{\alpha}$		4.55	4.80	4.33	5.00
How would you grade this instructor?	3.48	4.80	5.00	4.83	5.00

Questions were answered on a 1-5 scale with 5 being the highest and 1 being the lowest.

* Indicates co-lecturer

† Indicates average of all sections

 Δ Course evaluations were changed after this semester. Evaluations were based on a 1-5 scale with 3 being 'the course was aimed at my level of comprehension,' 1 being too easy and 5 being too difficult.

a These questions were added beginning in Fall 2019 and were therefore not included in Spring 2019 evaluations

Select Qualitative Feedback

PBIO 4650/6650 - Plant Taxonomy

- Derek did an awesome job teaching plant taxonomy! I really liked the examples he provided, which put the material into context and made everything easier to remember. It felt like we were being taught by someone who is in our shoes and he was very relatable.
- Organized and knowledgeable about course material. Interested and enthusiastic about the materials covered in class.
- This class would not have had the impact it did on me if I did not have Derek and Mark as my instructors! They were amazing!
- Derek always came to class prepared and ready to get started once class time began. He also reminded the class of upcoming assignments and project milestones that were approaching.
- Derek is an effective teacher because he understands how students learn and what an effective workload is.
- Derek was very thorough with his lectures and never had a problem answering anyone's questions in person or online. He was always very aware of the online portion of the class

and tried making everything as easy as possible for everyone. He was also enthusiastic about the material we were learning and always shared cool facts with us. Lastly, Derek and the other TA, Justine made a point to make sure none of us were stressing over our exams, especially the final. It was a really pleasant and fun experience that I hope future classes get to enjoy as well.

• Derek is an excellent teacher. He is knowledgeable and is constantly trying to improve his teaching style. He has been approachable and will always help any student that needs it. You can tell that he has worked hard on this class and I think because of his work ethic the students give him a lot of respect.

PBIO 3500 – Plant Ecology

- Derek is willing to help students out when they have questions about the in-class assignments.
- Derek was extremely helpful in explaining concepts that were not understood easily during assignments. He was very willing to help, which I appreciated as a student who often felt lost in this class.
- Derek was amazing! He was very very helpful if we had questions to ask him and he seemed very knowledgeable about the content of the class. He has probably been one of the best TAs/grad student that I have encountered at UGA.

BIOL 1108L – Organismal Biology Lab

- Derek was a phenomenal instructor in terms of holding student's interest and describing the work he assigned. Overall, his class was very enjoyable and I would honestly take it again.
- Overall Derek was great, he did a good job at explaining things. I really liked him because of how nice he was whenever I had a question for him.
- I really liked how detailed and thorough your feedbacks to our assignments were. The feedbacks are really helpful and showed stuff that I do wrong that I never considered before.
- Derek was helpful in helping students improve on their assignments.
- He was always prepared for class and was energetic. Even though the class itself was poorly designed, Derek always did a good job of trying his best to make the most out of our time. I appreciated his effort and energy, but overall he was very good.

Note received from the "Thank a Teacher" program at the Center for Teaching and Learning

From: Anonymous
Course: PBIO 4650: Plant Taxonomy (Spring 2022)
Derek,
Thanks so much for such a fun plant semester! I did not think I would enjoy this class as much as I did. It was obvious that you and Justine cared about creating a fun and easy- going learning experience for us. I know you will keep this trend going for future students. Have a great summer!



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January 16, 2023

Dear Members of the Excellence in Teaching Award Selection Committee:

It is with great pleasure that I nominate Derek Denney for the *Excellence in Teaching Award*. Derek is a Ph.D. candidate in the Department of Plant Biology. As long as I have known Derek, he has demonstrated a consistent desire to pursue a teaching career and he has availed himself of many of the excellent opportunities and resources at UGA to further develop his skills as an educator.

In the fall of 2019, in recognition of his demonstrated teaching skills the Department of Plant Biology asked Derek if he would be willing to serve as co-instructor of *Plant Taxonomy* (PBIO 4650/6650) in the coming semester, after the unexpected retirement of the faculty member who had taught the class for many years. Another faculty member and I have served as co-instructors of record for this course ever since and thus have firsthand knowledge of Derek's impressive contributions to the course. While materials used previously were shared with Derek and his coinstructor, they chose instead to revise much of the course. They put together a new curriculum and syllabus that incorporated the most up-to-date scientific content and current literature. They wrote new lectures and put together new teaching materials for both the lecture and lab, and in doing so increased the discussion component and made the course more interactive. By March, the COVID-19 pandemic required Derek and his co-instructor to pivot to an online format which they executed masterfully. They held discussions via Zoom and worked diligently to teach effectively. Fortunately, in the summer of 2019 Derek had developed an online project which he adapted for use in the Plant Taxonomy course during the COVID lockdown.

In the spring of 2021, although Derek was not a co-instructor, he helped the two graduate students who were teaching the course by sharing his teaching materials and insights, as well as brainstorming ways to improve instruction. Together, they implemented a larger portion of a project Derek developed for his digital learning course. They collected data on the student learning outcomes and presented the results of their findings at the international *Botany* meeting in the summer of 2021. In the spring of 2022, Derek served again as co-instructor of the course. With his new co-instructor, Derek introduced his iNaturalist project as a course-based research experience. Students learned how to make plant collections, identify plant taxa, and prepare herbarium specimens. They also collected digital photos and location data to upload to the iNaturalist community. This learning experience provided the students had real-world skills that could translate into jobs. Several undergraduate

students leveraged their new skill set to secure positions in research labs and the UGA herbarium. Additionally, the data that students collected are now available to a broader scientific community and serve as a valuable citizen science contribution for future research.

Derek is a gifted lecturer, presenting material in a clear, concise manner. He made the material interesting and his lectures were highly engaging. He was also very attuned to the students' needs as he frequently sought feedback to assess their level of understanding, and in so doing he effectively facilitated learning. Derek's passion and excitement for plant biology is highly contagious, often elicited equal levels of passion in the students. Derek's evaluations provide clear evidence of his skill in teaching with many of his students reporting that they enjoyed the class far more than they expected. It bears noting that since Derek's role in teaching Plant Taxonomy student enrollment has more than doubled.

Beyond his time in the classroom, Derek has actively sought opportunities at UGA to further his development as an educator, and to continue to improve this particular course. As a member of the Future Faculty Fellows Program (3FP) in 2022, he applied the teaching and classroom management principles from 3FP to further revise the Plant Taxonomy course materials to be inclusive and accessible. He arranged for a mid-semester formative evaluation from the Center for Teaching and Learning in Spring 2022. This allowed Derek and his co-instructor to garner feedback which allowed them to implement changes to the class to better accommodate students' needs. The students responded very favorably and saw this as evidence of Derek's commitment to teaching.

Derek is truly a gifted teacher and someone who is clearly committed to a career in teaching. Derek's excitement and infectious enthusiasm combined with his skill in the classroom and dedication to teaching make Derek exceptionally deserving of the *Excellence in Teaching Award*.

Sincerely,

Dorset L. Trapmell

Dorset W. Trapnell, Ph.D. Associate Professor & Undergraduate Coordinator