

Michael Gruenstaeudl (Grünstäudl), PhD

📍 Fort Hays State University, 600 Park Street, Hays, KS 67601, USA

✉️ m_gruenstaeudl@fhsu.edu | 🌐 gruenstaeudl-lab.com | 🏢 [0000-0002-1666-1773](#)

Education and Professional Positions

EDUCATION

Habilitation in Bioinformatics and Botany	Freie Universität Berlin, Germany	2023
Habilitation thesis: "Development and application of bioinformatic tools toward process automation in plant phylogenetics"		
Ph.D. in Plant Biology	University of Texas at Austin, USA	2013
M.Sc. in Plant Biology	University of Vienna, Austria	2007

PROFESSIONAL POSITIONS

Assistant Professor (Tenure-Track) Dept. Biological Sciences	Fort Hays State University, USA	2023–ongoing
Postdoctoral Researcher Dept. Biology, Chemistry, Pharmacy	Freie Universität Berlin, Germany	2015–2022
Postdoctoral Researcher Dept. Evolution, Ecology & Organismal Biology	Ohio State University, USA	2014–2015

Research

GRANT FUNDING

NSF-2417083 Co-PI	National Science Foundation – IUSE: EDU Grant#: 2417083 , Duration: 2024–ongoing	\$ 385,971
NIH-1R01LM014506 Single PI	National Institutes of Health – National Library of Medicine Grant#: 1R01LM014506 , Duration: 2024–ongoing	\$ 239,206
DFG-418670221 Single PI	Deutsche Forschungsgemeinschaft – Sachbeihilfe Grant#: 418670221 , Duration: 2018–2022	€ 69,360
KINBRE-GR00848 Single PI	Kansas IDeA Network of Biomedical Research Excellence Grant#: P20GM103418/GR00848, Duration: 2025–ongoing	\$ 33,210
UT-F816842 Single PI	University of Texas at Austin Graduate Research Fellowship Grant#: F816842, Duration: 2011–2012	\$ 26,772
KINBRE-GR509061 Single PI	Kansas IDeA Network of Biomedical Research Excellence Grant#: P20GM103418/GR509061, Duration: 2023–2024	\$ 24,765
FHSU-GR00807	Kansas legislature via the FHSU Water Office	\$ 24,059

FU-21224600 Single PI Grant#: GR00807, Duration: 2025–ongoing
Single PI Freie Universität Berlin Forschungskommission € 11,470
Grant#: 21224600, Duration: 2016–2018

PUBLICATIONS

Graduate and undergraduate student mentees are underlined

CONFERENCE PRESENTATIONS

- 2025 Contributed Talk**
OLC Accelerate 2025: Orlando, Florida, USA

2024 Invited Seminar
Wichita State University, USA

2024 Contributed Talk
20th Int'l Botanical Congress: Madrid, Spain

2024 Contributed Talk
Austrian Bioinform. Workshop 2024: Graz, Austria

2021 Contributed Talk (online)
Deutsche Bot. Gesellsch.: Oldenburg, Germany

2021 Contributed Talk (online)
19. Österreich. Botanik-Tagung: Krems, Austria

2021 Workshop Organizer (online)
Botanical Soc. of America Conf.: Connecticut, USA

2021 Contributed Talk (online)
Botanical Soc. of America Conf.: Connecticut, USA

2020 Contributed Talk (online)
Barcode of Life Initiative: Vienna, Austria

2019 Workshop Organizer
Gesellsch. für Biol. Systematik: Munich, Germany

2019 Contributed Talk
Gesellsch. für Biol. Systematik: Munich, Germany

2018 Contributed Talk
Deutsche Bot. Gesellsch.: Klagenfurt, Austria

2018 Workshop Organizer
Gesellsch. für Biol. Systematik: Vienna, Austria

2018 Contributed Talk
Gesellsch. für Biol. Systematik: Vienna, Austria

2017 Contributed Talk
Genomics in Biodiversity Res.: Berlin, Germany

2016 Contributed Talk
Dahlem Center of Plant Sciences: Berlin, Germany

2015 Contributed Talk
VISCEA Ecology & Evolution Conf.: Vienna, Austria

2015 Invited Seminar
University of Leipzig, Germany

2014 Contributed Talk
Society for the Study of Evolution Conf., USA

2011 Invited Seminar
University of Wageningen, The Netherlands

2010 Contributed Talk
Flora Macaronesia Int'l Symp.: Azores, Portugal

2010 Contributed Talk
9th Int'l Mycological Conf.: Edinburgh, UK

2009 Contributed Talk
Botanical Soc. of America Conf.: Utah, USA

2008 Contributed Talk
Botany 2008 Conf.: Vancouver, Canada

2007 Contributed Talk
Botany & Plant Biology 2007 Conf.: Chicago, USA

Teaching

— LIST OF UNIVERSITY COURSES TAUGHT

G graduate-level course

Assistant Professor at Fort Hays State Univ.

Principles of Biology (BIOL180, 3 credits) – Lectures	Sole instructor	4 semesters Spring 2025, Fall 2024, Fall 2023, Spring 2023
Genetics (BIOL325, 3 credits) – Lectures	Sole instructor	4 semesters Spring 2023, Spring 2024, Fall 2024, Fall 2025
Genetics (BIOL325, 1 credit) – Labs	Sole instructor	4 semesters Spring 2023, Spring 2024, Fall 2024, Fall 2025
Topics in Biology: Bioinformatics (BIOL607/G, 3 credits) 	Sole instructor	2 semesters Fall 2023, Fall 2025
Botany (BIOL250, 3 credits) – Lectures	Sole instructor	2 semesters Fall 2023, Spring 2025
Botany (BIOL250L, 1 credit) – Labs	Sole instructor	2 semesters Fall 2023, Spring 2025
Plant Anatomy (BIOL330, 3 credits) – Lectures	Sole instructor	1 semester Fall 2025
Plant Anatomy (BIOL330L, 1 credit) – Labs	Sole instructor	1 semester Fall 2025
Topics in Biology: Molecular Biology, 4 credits (BIOL607/G) 	Sole instructor	1 semester Fall 2023
Readings in Biology: The Impact of AI on Biology and Medicine (BIOL482/BIOL882, 2 credits) 	Sole instructor	1 semester Fall 2023

Lecturer at the Freie Universität Berlin

Genetik & Genomforschung (LVNr. 23771a) – Vorlesung Genetics & Genomics – Lectures	Co-instructor	4 semesters Fall 2018, Fall 2019, Fall 2020 (online), Fall 2021 (online)
Genetik & Genomforschung (LVNr. 23771b) – Praktikum Genetics & Genomics – Labs	Co-instructor	4 semesters Fall 2018, Fall 2019, Fall 2020 (online), Fall 2021 (online)
Einführung in Botanik & Biodiversität (LVNr. 23106) – Vorlesung Introduction to Botany & Biodiversity – Lectures	Co-instructor	5 semesters Fall 2017, Fall 2018, Fall 2019, Fall 2020 (online), Fall 2021 (online)
Einführung in Botanik & Biodiversität (LVNr. 23108a-e) – Praktikum Introduction to Botany & Biodiversity – Labs	Co-instructor	6 semesters Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020 (online), Fall 2021 (online)

Botanik & Mikrobiol. für das Fach Biochemie (LVNr. 23700) – Vorlesung Botany & Microbiol. for Biochemists – Lectures	Co-instructor	5 semesters Fall 2017, Fall 2018, Fall 2019, Fall 2020 (online), Fall 2021 (online)
Allg. Botanik & Pflanzenphys. für Veterinärmed. (LVNr. 23760b-c) – Vorlesung Botany & Plant Phys. for Veterinary Sci. – Lectures	Co-instructor	5 semesters Fall 2017, Fall 2018, Fall 2019, Fall 2020 (online), Fall 2021 (online)
Prakt. Vertiefung Fachwissenschaft Biologie–Evolution (LVNr. 23653) – Seminar Topics in Biology: Evolution – Seminar 	Co-instructor	5 semesters Spring 2017, Spring 2019, Spring 2020 (online), Spring 2021 (online)
Prakt. Vertiefung Fachwissenschaft Biologie–Evolution (LVNr. 23654a-b) – Praktikum Topics in Biology: Evolution – Labs 	Co-instructor	5 semesters Spring 2017, Spring 2019, Spring 2020 (online), Spring 2021 (online)
Forschungspraktikum Bioinformatik (LVNr. 19400432) – Praktikum Research in Bioinformatics – Labs	Co-instructor	1 semester Spring 2019
Current Topics in Plant Systematics & Evolution (LVNr. 23815) – Seminar 	Co-instructor	1 semester Fall 2018
Evolution & Biodiversität–Botanik (LVNr. 23303a-e) – Vorlesung Evolution & Biodiversity–Botany – Lectures 	Co-instructor	1 semester Spring 2015

— GRADUATE STUDENT SUPERVISION —

David Esteban Bohorquez	Master of Science	Fort Hays State Univ.	Primary/Thesis Adv.	2025–ongoing
Thanina Hamitouche	Master of Science	Fort Hays State Univ.	Primary/Thesis Adv.	2025–ongoing
Buddha Thapa Magar	Master of Science	Fort Hays State Univ.	Primary/Thesis Adv.	2024–ongoing
Louisa Acquah	Master of Science	Fort Hays State Univ.	Primary/Thesis Adv.	2023–ongoing
Nils Jenke	Master of Science	Freie Univ. Berlin	Primary/Thesis Adv.	2020–2021
Yannick Hartmaring	Master of Science	Freie Univ. Berlin	Primary/Thesis Adv.	2020–2021
Eka Giorgashvili	Master of Science	Freie Univ. Berlin	Primary/Thesis Adv.	2019–2020
Jessica Röstel	Master of Science	Freie Univ. Berlin	Primary/Thesis Adv.	2019–2020
Griffin Davis	Master of Science	Fort Hays State Univ.	Committee Member	2024–ongoing
Gabriella Rueschhoff	Master of Science	Fort Hays State Univ.	Committee Member	2024–ongoing
Alfred Appiah	Master of Science	Fort Hays State Univ.	Committee Member	2023–2025
Jacob Alexander	Master of Science	Fort Hays State Univ.	Committee Member	2023–2025
Isaac Odoi	Master of Science	Fort Hays State Univ.	Committee Member	2023–2024

— UNDERGRADUATE STUDENT SUPERVISION —

Note: In Austria and Germany, B.S. degrees require a mandatory research thesis.

Tilman Mehl	Bachelor of Science	Freie Univ. Berlin	Primary/Thesis Adv.	2020
Nils Jenke	Bachelor of Science	Freie Univ. Berlin	Primary/Thesis Adv.	2019
Yannick Hartmaring	Bachelor of Science	Freie Univ. Berlin	Primary/Thesis Adv.	2019

— HONORS, AWARDS & CERTIFICATES FOR TEACHING —

Certificate in Effective Teaching Practices	Assoc. of College and Univ. Educators	2025
9-month (25-module) course in effective teaching practices on implementation of evidence-based instructional approaches		
Teaching grant–Experiential learning innovation	Fort Hays State University	2023
Teaching grant–Undergraduate research experience	Fort Hays State University	2023
Teaching grant–Industry 4.0	Freie Universität Berlin	2018
Teaching award	Freie Universität Berlin	2017
Scholarship of excellence	Land Niederösterreich	2012
Graduate student research award	American Society of Plant Taxonomists	2011
Graduate student research award	Mycological Society of America	2010
Graduate student research award	Botanical Society of America	2010
Teaching assistant award	University of Texas at Austin	2007

Service

— LEADERSHIP TRAINING —

LHH Executive Program for Leaders & Managers	LHH OTM Career Development	2022
4-month training in communication, transition management, interviews, hearings, and assessments		

— COMMITTEE WORK —

University committees

Strategic Planning & Improv. Committee , Chair	Fort Hays State University	2025–ongoing
Faculty Senate , Full Member	Fort Hays State University	2025–ongoing
Departm. Hiring Committee , Chair	Fort Hays State University	2025
Faculty Senate , Alternate Member	Fort Hays State University	2024–2025
Departm. Graduate Education Committee , Member	Fort Hays State University	2024–ongoing
Departm. Hiring Committee , Member	Fort Hays State University	2024
Departm. Scholarship Committee , Member	Fort Hays State University	2024

Departm. Infrastructure Committee, Member

Freie Universität Berlin

2017–2018

— PEER-REVIEW —

Funding Agencies

- Deutsche Forschungsgemeinschaft (DFG)

Scientific Journals

- Annals of Botany
- BMC Plant Biology
- Botanical Journal of the Linnean Society
- Frontiers in Plant Science
- GigaScience
- Mathematical Biosciences
- Mitochondrial DNA Part B
- Molecular Ecology
- Molecular Ecology Resources
- Nordic Journal of Botany
- Plant Systematics and Evolution
- PLOS One
- Systematic Botany
- Taxon
- Willdenowia

— SCIENTIFIC MEMBERSHIPS —

- International Society for Computational Biology (ISCB)
- International Association for Plant Taxonomy (IAPT)
- Austrian Scientists & Scholars in North America (ASCINA)
- German Association of University Professors and Lecturers (DHV)
- German Botanical Society (DBG)
- Council on Undergraduate Research (CUR)