

Michael Gruenstaeudl (Grünstäudl), PhD

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

Research

GRANT FUNDING

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

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

PUBLICATIONS

Graduate and undergraduate student mentees are underlined

CONFERENCE PRESENTATIONS




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|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 2025 Contributed Talk
<i>OLC Accelerate 2025: Orlando, Florida, USA</i> | 2018 Contributed Talk
<i>Gesellsch. für Biol. Systematik: Vienna, Austria</i> |
| 2024 Invited Seminar
<i>Wichita State University, USA</i> | 2017 Contributed Talk
<i>Genomics in Biodiversity Res.: Berlin, Germany</i> |
| 2024 Contributed Talk
<i>20th Int'l Botanical Congress: Madrid, Spain</i> | 2016 Contributed Talk
<i>Dahlem Center of Plant Sciences: Berlin, Germany</i> |
| 2024 Contributed Talk
<i>Austrian Bioinform. Workshop 2024: Graz, Austria</i> | 2015 Contributed Talk
<i>VISCEA Ecology & Evolution Conf.: Vienna, Austria</i> |
| 2021 Contributed Talk (online)
<i>Deutsche Bot. Gesellsch.: Oldenburg, Germany</i> | 2015 Invited Seminar
<i>University of Leipzig, Germany</i> |
| 2021 Contributed Talk (online)
<i>19. Österreich. Botanik-Tagung: Krems, Austria</i> | 2014 Contributed Talk
<i>Society for the Study of Evolution Conf., USA</i> |
| 2021 Workshop Organizer (online)
<i>Botanical Soc. of America Conf.: Connecticut, USA</i> | 2011 Invited Seminar
<i>University of Wageningen, The Netherlands</i> |
| 2021 Contributed Talk (online)
<i>Botanical Soc. of America Conf.: Connecticut, USA</i> | 2010 Contributed Talk
<i>Flora Macaronesia Int'l Symp.: Azores, Portugal</i> |
| 2020 Contributed Talk (online)
<i>Barcode of Life Initiative: Vienna, Austria</i> | 2010 Contributed Talk
<i>9th Int'l Mycological Conf.: Edinburgh, UK</i> |
| 2019 Workshop Organizer
<i>Gesellsch. für Biol. Systematik: Munich, Germany</i> | 2009 Contributed Talk
<i>Botanical Soc. of America Conf.: Utah, USA</i> |
| 2019 Contributed Talk
<i>Gesellsch. für Biol. Systematik: Munich, Germany</i> | 2008 Contributed Talk
<i>Botany 2008 Conf.: Vancouver, Canada</i> |
| 2018 Contributed Talk
<i>Deutsche Bot. Gesellsch.: Klagenfurt, Austria</i> | 2007 Contributed Talk
<i>Botany & Plant Biology 2007 Conf.: Chicago, USA</i> |
| 2018 Workshop Organizer
<i>Gesellsch. für Biol. Systematik: Vienna, Austria</i> | |

Teaching

LIST OF UNIVERSITY COURSES TAUGHT





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

SCIENTIFIC MEMBERSHIPS

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

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