BARNABAS C. SEYLER, PH.D.

Assistant Professor of Horticulture
Department of Horticulture and Natural Resources, Kansas State University
2607 Throckmorton Plant Sciences Center
Manhattan, KS 66506
bseyler@ksu.edu

EDUCATION

2017 **Doctor of Philosophy, Botany (Ethnobotany)**
University of Hawai‘i at Mānoa, Honolulu, HI
Dissertation: *The role of botanical gardens in the conservation of orchid biocultural diversity in Sichuan Province, China*
Advisor: Dr. David C. Duffy

2009 **Master of Science, Public Horticulture (Longwood Graduate Program)**
University of Delaware, Newark, DE
Thesis: *Sino-American botanical exchange: Encouraging greater botanical collaboration through a mutually beneficial staff exchange program*
Advisor: Dr. Robert E. Lyons

2009 **Museum Studies Graduate Certificate**
University of Delaware, Newark, DE (completed concurrently with M.S.)

2007 **Bachelor of Science, Landscape Horticulture and Plant Science; Minor: Plant Biology**
University of Delaware, Newark, DE

2007 **Bachelor of Arts, East Asian Studies; Minor: Philosophy**
University of Delaware, Newark, DE

ACADEMIC APPOINTMENTS

Assistant Professor of Horticulture | Kansas State University, College of Agriculture, Department of Horticulture and Natural Resources, Manhattan, Kansas, USA | 2026–Present

Adjunct Researcher | Sichuan University, College of Architecture & Environment, Department of Environment, Chengdu, Sichuan, China | 2023–2024

Assistant Researcher (Research-Track Faculty) | Sichuan University, College of Architecture & Environment, Department of Environment, Chengdu, Sichuan, China | 2018–2022

GRANTS, FELLOWSHIPS, & FUNDED PROJECTS

Research Grants & Funded Projects

2023–2024 | **Principal Investigator** | *Understanding patterns of urban mistletoe distribution and bird-mistletoe interactions in a representative Southwest Chinese City*
National Natural Science Foundation of China (NSFC #32250410302) | ¥400,000 (~US$57,000)

2019–2022 | **Collaborator** | *Impact Assessment of the Sparkling Lake Restoration Project on Jiuzhaigou Valley Scenic and Historic Interest Area (UNESCO Site), China*
National Forestry and Grassland Administration of China (NFGA #19H0212) | Total Project Funding: ¥2,450,000 (~US$350,000)

2019–2020 | **Co-Principal Investigator** | *Health effects of spatial accessibility to urban greenspace: A case study of Chengdu, Sichuan Province*
Postdoctoral Interdisciplinary Innovation Grant, Sichuan University | ¥100,000 (~US$14,000)

2015–2016 | **Principal Investigator / NSF EAPSI Fellow** | *Understanding how increasing urbanization affects cultural and biological knowledge preservation in Sichuan Province, China*
U.S. National Science Foundation (NSF #1514945) | ~US$12,000 (stipend and travel support)

Student Research Funding (Faculty Mentor)

2026–2027 | Faculty Mentor | Jacob Huyett | *A study of the species diversity of the woody shrubs on Kansas State University's Manhattan Campus*
Undergraduate Research Amplification Project (URAP), Kansas State University | $2,000

2020–2021 | Faculty Mentor | Yuchen Niu | *Impacts of Parasitic Plants and Potential Management Solutions: A Study of Sichuan University's Wangjiang Campus*
Undergraduate Student Innovation Training Program, Sichuan University | ¥3,000 (~US$435) | Project resulted in a peer-reviewed publication

2019–2020 | Faculty Co-Mentor | Youjia Liu | *Optimization of Residential Community Design in Chengdu Based on the "Forest City" Concept*
Undergraduate Student Innovation Training Program, Sichuan University | ¥1,200 (~US$175)

Fellowships

2016–2017 | **Doctoral Fellow** | *Ph.D. Research Fellowship*
Pacific Cooperative Studies Unit, Univ. of Hawai'i at Mānoa | $35,000

2007–2009 | **Graduate Fellow** | *Longwood Graduate Program Fellowship*
University of Delaware & Longwood Gardens | ~$250,000 USD

Grants Authored

2009 | **Grant Author** | *Grant to fund inaugural year of the Welkinweir Curatorial Fellowship*
Stanley Smith Horticultural Trust | $15,000 USD

2008 | **Grant Author** | *Labeling support for living collections management at Welkinweir*
Stanley Smith Horticultural Trust | $20,000 USD

Barnabas C. Seyler, Ph.D.

PUBLICATIONS

**Denotes corresponding authorship*; † *Denotes co-first authorship;* § *Student co-authored publication under my supervision.*

Peer-Reviewed First & Corresponding Author Papers

§Gao, X., T. Qin, S. Tang, S. Liu, Y. Cui, G. Zhang, **B.C. Seyler***. 2026. Enhanced flavonoids and antibacterial function in *Houttuynia cordata* with different organic fertilizers. *Journal of Emerging Investigators*. [Accepted]

§Laffitte, B., **B.C. Seyler***, X. Yang, Y. Tang. 2024. Transplanted Ginkgo growth rates indicate common Chinese nursery techniques may severely limit urban ecosystem services. *Science of the Total Environment*. 912 (168977): 1–7. https://doi.org/10.1016/j.scitotenv.2023.168977

§Niu, Y., B. Laffitte, S. Zuoqiu, **B.C. Seyler***, Z. Ha, J. Chen, L. Chen, Y. Tang. 2024. Understanding predictors of mistletoe infection across an urban university campus in Southwest China. *Urban Ecosystems*. 27: 1085–1099. https://doi.org/10.1007/s11252-024-01514-4

Seyler, B.C., Luo, H., Wang, X., Zuoqiu, S., Xie, Y., Wang, Y. 2023. Assessing the impact of urban greenspace on physical health: An empirical study from Southwest China. *Frontiers in Public Health*. 11(1148582), 1–15. https://doi.org/10.3389/fpubh.2023.1148582

§Laffitte, B., **B.C. Seyler***, Y. Tang. 2022. Environmental education to engage urban youth: anecdotes from Southwest China. *Journal of Biological Education*. 58(4): 997–1009. https://doi.org/10.1080/00219266.2022.2118812

Liu, L.†, **B.C. Seyler**†, H. Liu, L. Zhou, D. Chen, S. Liu, C. Yan, F. Yang, D. Song, Q. Tan, F. Jia, C. Feng, Q. Wang, Y. Li. 2022. Biogenic volatile organic compound emission patterns and secondary pollutant formation potentials of dominant greening trees in Chengdu, southwest China. *Journal of Environmental Sciences*. 114: 179–193. https://doi.org/10.1016/j.jes.2021.08.033

Wang, J., **B.C. Seyler***, T.S. Phuntsok, Y. Lu, L. Tsomo. 2022. Traditional beliefs, culture, and local biodiversity protection: An ethnographic study in the Shaluli Mountains Region, Sichuan Province, China. *Journal for Nature Conservation*. 68(126213): 1–16. https://doi.org/10.1016/j.jnc.2022.126213

Yang, J., Z. Xie, **B.C. Seyler***. 2022. Comparing KTP and CO2 laser excision for recurrent respiratory papillomatosis: A systematic review. *Laryngoscope Investigative Otolaryngology*. 7(4), 970–981. https://doi.org/10.1002/lio2.871

Seyler, B.C.*, O.G. Gaoue, Y. Tang, D.C. Duffy, E. Aba. 2020. Collapse of orchid populations altered traditional knowledge and cultural valuation in Sichuan, China. *Anthropocene*. 29(100236): 1–12. https://doi.org/10.1016/j.ancene.2020.100236

Wang, J., **B.C. Seyler***, T. Ticktin, Y. Zeng, K. Ayu. 2020. An ethnobotanical survey of wild edible plants used by the Yi people of Liangshan Prefecture, Sichuan Province, China. *Journal of Ethnobiology and Ethnomedicine*. 16(10): 1–27. https://doi.org/10.1186/s13002-019-0349-5

Seyler, B.C.*, O.G. Gaoue, Y. Tang, D.C. Duffy. 2019. Understanding knowledge threatened by declining wild orchid populations in an urbanizing China (Sichuan). *Environmental Conservation*. 46(4): 318–325. https://doi.org/10.1017/S0376892919000171

Wang, J., **B.C. Seyler***, T. Ticktin, Y. Zeng, Z. Ezhu. 2019. Indigenous Botanical Nomenclature Used by the Yi People in Liangshan Prefecture, Sichuan Province, China. *Economic Botany*. 73(3): 325–340. https://doi.org/10.1007/s12231-019-09461-4

Peer-Reviewed Co-Authored Papers

Laffitte, B., T. Zhou, Z. Yang, P. Ciais, J. Jian, N. Huang, **B.C. Seyler**, X. Pei, X. Tang. 2025. Timescale Matters: Finer temporal resolution influences driver contributions to global soil respiration. *Global Change Biology*. 31(e70118): 1–17. https://doi.org/10.1111/gcb.70118

Zhang, Y., B. Liu, L. Liu, and **B.C. Seyler**. 2025. Connecting the alkaline 'sink' to the atmospheric carbon 'source' in eutrophic water treatment. *Journal of Water & Climate Change*. 16(2): 444–455. https://doi.org/10.2166/wcc.2025.476

Tao, Y., Y. Wang, J. Wang, S. Long, **B.C. Seyler**, X. Zhong, Q. Lu. 2024. Pictorial review of hepatic echinococcosis: Ultrasound imaging and differential diagnosis. *World Journal of Gastroenterology*. 30 (37): 4115–4131. https://doi.org/10.3748/wjg.v30.i37.4115

Teng, Y., K. Chen, H. Jiang, Y. Hu, **B.C. Seyler**, A. Appiah, S. Peng. 2024. Utilization of phosphoric acid-modified biochar to reduce vanadium leaching potential and bioavailability in soil. *Environmental Pollution*. 344 (123360): 1–12. https://doi.org/10.1016/j.envpol.2024.123360

Wang, X., **B.C. Seyler**, T. Chen, W. Jian, H. Fu, B. Di, W. Yip, J. Pan. 2024. Disparity in healthcare seeking behaviors between impoverished and non-impoverished populations with implications for healthcare resource optimization. *Humanities and Social Sciences Communications*. 11(1), 1–12. https://doi.org/10.1057/s41599-024-03712-z

Yang, T., D. Tang, Y. Zhan, **B.C. Seyler**, F. Li, B. Zhou. 2024. SARS-CoV-2 vaccination and semen quality: a study based on sperm donor candidate data in southwest China. *Translational Andrology and Urology*. 13 (1), 80–90. https://doi.org/10.21037/tau-23-395

Laffitte, B., **B.C. Seyler**, P. Li, Z. Ha, Y. Tang. 2023. Using tree rings to detect a CO_2 fertilization effect: a global review. *Trees*. 37 (0123456789): 1299–1314. https://doi.org/10.1007/s00468-023-02438-w

Chen, K., D. Ma, H. Yu, S. Zhang, **B.C. Seyler**, Z. Chai, S. Peng. 2022. Biosorption of V(V) onto Lantana camara biochar modified by H_3PO_4: Characteristics, mechanism, and regenerative capacity. *Chemosphere*. 291 (132721): 1–11. https://doi.org/10.1016/j.chemosphere.2021.132721

Laffitte, B., **B.C. Seyler**, W. Wang, P. Li, J. Du, Y. Tang. 2022. Declining tree growth rates despite increasing water-use efficiency under elevated CO2 reveals a possible global overestimation of CO2 fertilization effect. *Heliyon* 8 (Sept), 1–15. https://doi.org/10.1016/j.heliyon.2022.e11219

Liu, Y., C. Li, D. Liu, Y. Tang, **B.C. Seyler**, Z. Zhou, X. Hu, F. Yang, Y. Zhan. 2022. Deriving hourly full-coverage $PM_{2.5}$ concentrations across China's Sichuan Basin by fusing multisource satellite retrievals: A machine-learning approach. *Atmospheric Environment*. 271(118930): 1-11. https://doi.org/10.1016/j.atmosenv.2021.118930

Pan, J., D. Wei, **B.C. Seyler**, C. Song, X. Wang. 2022. An External Patient Healthcare Index (EPHI) for Simulating Spatial Tendencies in Healthcare Seeking Behavior. *Frontiers in Public Health*. 10 (786467): 1-13. https://doi.org/10.3389/fpubh.2022.786467

Wu, Q., T. Li, S. Zhang, J. Fu, **B.C. Seyler**, Z. Zhou, X. Deng, B. Wang, Y. Zhan. 2022. Evaluation of NOx emissions before, during, and after the COVID-19 lockdowns in China: A comparison of meteorological normalization methods. *Atmospheric Environment*. 278 (119083): 1-10. https://doi.org/10.1016/j.atmosenv.2022.119083

Qiao, X., X. Shu, Y. Tang, L. Duan, **B.C. Seyler**, H. Guo, Y. Xiao, Q. Ying, H. Zhang. 2021. Atmospheric deposition of sulfur and nitrogen in the West China rain zone: Fluxes, concentrations, ecological risks, and source apportionment. *Atmospheric Research*. 256(105569): 1-10. https://doi.org/10.1016/j.atmosres.2021.105569

Wang, X., **B.C. Seyler**, W. Han, J. Pan. 2021. An integrated analysis of spatial access to the three-tier healthcare delivery system in China: A case study of Hainan Island. *International Journal for Equity in Health*. 20(60): 1–15. https://doi.org/10.1186/s12939-021-01401-w

Zhang, M., **B.C. Seyler**, B. Di, Y. Wang, Y. Tang. 2021. Impact of earthquakes on natural area-driven tourism: Case study of China's Jiuzhaigou National Scenic Spot. *International Journal of Disaster Risk Reduction*. 58(102216): 1–12. https://doi.org/10.1016/j.ijdrr.2021.102216

Zhang, M., X. Qiao, **B.C. Seyler**, B. Di, Y. Wang, Y. Tang. 2021. Effective earthquake early warning systems: appropriate messaging and public awareness roles. *Natural Hazards and Earth System Sciences*. 21(10): 3243–3250. https://doi.org/10.5194/nhess-2021-42

Jin, L., B. Wang, G. Shi, **B.C. Seyler**, X. Qiao, X. Deng, X. Jiang, F. Yang, Y. Zhan. 2020. Impact of China's Recent Amendments to Air Quality Monitoring Protocol on Reported Trends. *Atmosphere*. 11(1199): 1-8. https://doi.org/10.3390/atmos11111199

Peng, S., L. Wu, **B.C. Seyler**, X. Pei, S. Li, Y. Huang. 2020. The combined effects of Cu and Pb on the sex-specific growth and physiology of the dioecious *Populus yunnanensis*. *Environmental Research*. 184(109276): 1-11. https://doi.org/10.1016/j.envres.2020.109276

Qiu, Y., T. Yang, **B.C. Seyler**, X. Wang, Y. Wang, M. Jiang, B. Liu, F. Li. 2020. Ambient air pollution and male fecundity: A retrospective analysis of longitudinal data from a Chinese human sperm bank (2013–2018). *Environmental Research*. 186(109528): 1–7. https://doi.org/10.1016/j.envres.2020.109528

Tang, D., D. Liu, Y. Tang, **B.C. Seyler**, X. Deng, Y. Zhan. 2019. Comparison of GOCI and Himawari-8 aerosol optical depth for deriving full-coverage hourly $PM_{2.5}$ across the Yangtze River Delta. *Atmospheric Environment*. 217(116973): 1-11. https://doi.org/10.1016/j.atmosenv.2019.116973

Zeng, Y., Y. Cao, X. Qiao, **B.C. Seyler**, Y. Tang. 2019. Air pollution reduction in China: Recent success but great challenge for the future. *Science of the Total Environment*. 663(24): 329–337. https://doi.org/10.1016/j.scitotenv.2019.01.262

Gaoue, O.G., M.A. Coe, M. Bond, G. Hart, **B.C. Seyler**, & H. McMillen. 2017. Theories and major hypotheses in ethnobotany. *Economic Botany*. 71(3): 269–287. https://doi.org/10.1007/s12231-017-9389-8

Huang, W.-C., K. Jiang, C. Hu, Y.-E. Xiao, **B.C. Seyler**, & Y.-Y. Li. 2017. A new set of microsatellite primers for *Coelogyne fimbriata* (Orchidaceae) and cross-amplification in *C. ovalis*. *Applications in Plant Sciences*. 5(5): 1700025. https://doi.org/10.3732/apps.1700025

Solicited Articles & Book Reviews

Seyler, B*. 2022. Review of the book *Yams: Botany, Production and Uses*, by A.K. Thompson and I. Oduro. *Economic Botany*. W. Applequist (Ed.), June. 76: 230-231. https://doi.org/10.1007/s12231-022-09551-w

Seyler, B*. 2022. Review of the book *Spices, Scents and Silk: Catalysts of World Trade*, by J.F. Hancock. *Economic Botany*. W. Applequist (Ed.), June. 76: 232. https://doi.org/10.1007/s12231-022-09551-w

Seyler, B*. & R. Lyons. 2011. Sino-American botanical exchange: characteristics of success and lessons learnt. Solicited article. *BGjournal* [UK]. January. 8(1): 19-23.

Seyler, B*. 2008. Longwood Gardens: a history of horticultural grandeur. Solicited article. *Journal of Fairylake Botanical Garden* [Shenzhen, China]. 7(3): 40-41.

Professional Publications & Technical Resources

Longwood Graduate Program. 2008. *Welkinweir Plant Records Handbook*. Professional Outreach Project: *Improving Plant Collections Management at Welkinweir*. University of Delaware, Newark, DE. **Contributing Author (Second Year Fellow)**. Available through the American Public Gardens Association. https://www.publicgardens.org/resource/welkinweir-plant-record-handbook/

Barnabas C. Seyler, Ph.D.

TEACHING EXPERIENCE

University-Level Instruction:

Kansas State University | Assistant Professor of Horticulture | Manhattan, KS | 2026–Present

- HORT 274 | *Landscape Plants I: Woody Landscape Plants* | Fall 2026
- HORT 350 | *Plant Propagation* | Spring 2027 (Scheduled)

G-MEO Chengdu-American Center for Study Abroad | Adjunct Professor | Chengdu, China | 2020–2022 | *University of Record: Fairleigh Dickinson University*

- HUMN 2205 | *World Food & Culture* | Spring 2021, Fall 2021, Spring 2022, Summer 2022

Sichuan University | Instructor | Chengdu, China | 2018–2022

- 305101020 | *Professional English for Environmental Engineering* | Spring 2020, 2021, 2022

University of Hawai‘i at Mānoa | Graduate Teaching Assistant & Field/Lab Instructor | Honolulu, HI | 2012–2017

- BIOL 172L | *Introduction to Biology II (Lab)* | Spring 2013, Summer 2017
- BOT 101L | *General Botany (Lab)* | Spring 2014, Spring 2016
- BOT 105 | *Introduction to Ethnobotany (Lab)* | Fall 2013, Fall 2014, Fall 2016
- BOT 202 | *Introduction to Plant Ecology (Lab)* | Fall 2012, Fall 2013
- BOT 454 | *Plant Community Ecology (Lab)* | Spring 2015

Secondary Teaching & Program Leadership:

Chengdu Shude High School, International Department | Teacher & Program Founder | Chengdu, China | 2022–2025

- IB *Environmental Systems and Societies (ESS)* | 2023–2025
- IB *Theory of Knowledge (TOK)* | 2022–2025
- AP *Seminar* | 2023–2025
- *World Food & Culture* | 2022–2025
- *Critical Thinking* | 2022–2023, 2024–2025
- *Exploratory Ecology* | 2022–2023
- Founded and taught the school’s first IB Environmental Systems & Societies program, integrating fieldwork, guided observation, and inquiry-based learning.
- Supervised 40+ student research projects on plant–environment interactions, horticulture, urban biodiversity, soil amendments, and environmental monitoring.
- Founded and advised the student *Horticulture Club*, including developing a hands-on learning garden and vermicomposting program; advised the *Yi (Nuosu) Culture Appreciation Club*.

Additional Instructional Experience:

University of Delaware, English Language Institute | English Language Tutor | Newark, DE | 2009–2012 | Individual instruction in academic English, writing, communication, and cross-cultural adaptation

Barnabas C. Seyler, Ph.D.

STUDENT RESEARCH MENTORSHIP

Undergraduate Research & Honors Students

2026–Present | Jacob Huyett | Kansas State University Honors Program | Honors Research Mentor | Woody shrub diversity and campus inventory

2020–2021 | Yuchen Niu | Sichuan University | Faculty Mentor | Campus mistletoe ecology and management

2019–2020 | Youjia Liu | Sichuan University | Faculty Co-Mentor | "Forest City" approaches to residential community design

Undergraduate Theses

2022 | Shiya Tang | Sichuan University | Thesis Advisor | *A Study of Aromatic Plants in Chengdu Based on Plant Blindness Theory*

2021 | Rongxin Zhu | Sichuan University | Thesis Co-Advisor | *Spatiotemporal Distribution of Atmospheric Particulate Matter in China: A Long-Term Time-Series Study*

2020 | Yichen Lu | Sichuan University | Thesis Co-Advisor | *High-Resolution Spatiotemporal Estimation of NO_2 Using Multi-Source Urban Big Data*

HONORS & AWARDS

- *Outstanding Teacher Award*, Chengdu Shude High School (2022–2023; 2023–2024)
- *Outstanding Student Club Advisor* (Horticulture Club), Chengdu Shude High School (2023–2024)
- *Outstanding Award for Holistic Education*, Chengdu Shude High School (2022–2023)
- *Outstanding Undergraduate Teaching Award*, Sichuan University (2019–2020)
- Phi Beta Kappa & Phi Kappa Phi Honor Societies, University of Delaware (2007)

PROFESSIONAL HORTICULTURE & INDUSTRY EXPERIENCE

Horticulturist | Cornwallis (Burnam Private Garden), Elkton, MD | 2007–2012; 2017–2018; 2025–2026 | Landscape management, plant selection, propagation, garden renovation, and long-term planning.

Assistant Foreman/Horticulturist | Heartwood Landscaping & Tree Services, North East, MD | 2010

Longwood Graduate Fellow | University of Delaware, Newark, DE | Longwood Gardens, Kennett Square, PA | 2007–2009

Conservatory & Aquatic Plant Intern | Longwood Gardens, Kennett Square, PA | 2006

Horticultural Intern | Biltmore Estate, Asheville, NC | 2005

Retail Horticulturist/Nursery Grower Assistant | Tammy's Garden, Walkersville, MD | 2001–2005

Applied Horticulture & Consulting Projects:

Ecological & Horticultural Consultant | *Jiuzhaigou National Park (UNESCO World Heritage Site),* Sichuan, China | 2018–2020 | Contributed horticultural and ecological expertise to post-earthquake restoration assessment and co-edited the project's official impact-assessment report.

Sustainable Landscape Management Consultant | *Qingdao Research Institute of Sichuan University*, Qingdao, Shandong, China | 2019 | Advised businesses, property managers, and government entities on horticulture, ecological restoration, and sustainable landscape management practices

PROFESSIONAL & UNIVERSITY SERVICE

University Service

Kansas State University, Department of Horticulture & Natural Resources

2026–Present | Member, Student Recruitment and Retention Committee

2026–Present | Member, Undergraduate Curriculum Committee

2026–Present | Faculty Co-Advisor, K-State Horticulture Club

Editorial & Peer Review Service

2025–Present | Associate Editor | *Ethnobotany and Economic Botany* (formerly *Economic Botany*)

2016–Present | Manuscript Reviewer | *Biotropica*; *Ethnobotany and Economic Botany*; *Environmental Research*; *Human Ecology*; *Industrial Crops and Products*; *Journal of Environmental Management*; *Scientific Reports*; and *Urban Forestry & Urban Greening*

Professional Service

2024–2025 | Expert Panel Committee Member, Citizen Science Team | *Urban Biodiversity Volunteer Collaborative Working Group* | Chengdu, China

2008–2009 | Selection Committee Member, International Gardener Training Program | *Longwood Gardens* | Kennett Square, PA

2005–2006 | Undergraduate Representative, Botanic Gardens Operating Committee | *University of Delaware Botanic Gardens* | Newark, DE

2000–2012 | Council Member & Resource Person | *Fountain Rock Nature Council* | Walkersville, MD

PRESENTATIONS & INVITED TALKS

Invited Talks & Lectures

- **Invited Speaker** | *Navigating Environmental Education for Chinese Urban Youth* | Urban Biodiversity Volunteer Collaborative Working Group | Oct. 23, 2024 | Chengdu, China
- **Invited Speaker** | *The Importance of Ethnobotany and Biocultural Diversity Conservation* | International Week, Chengdu University | Oct. 21, 2024 | Chengdu, China
- **Breakout Session Facilitator** | *Ecosystem-based Disaster Risk Reduction and Climate Change Adaptation (ECO-DRR/CCA)* | UN Environment Programme | Institute for Disaster Management and Reconstruction (IDMR), Sichuan University | Oct. 2021 | Chengdu, China
- **Invited Speaker** | *Orchid Biocultural Diversity Conservation in China: The Role of Botanical Gardens* | Centre for Urban Greenery and Ecology, National Parks Board (NParks) | Sept. 2019 | Singapore
- **Invited Speaker** | *Ethnobotanical methods for biocultural diversity conservation* | Global Urban Development Program, Sichuan University | Dec. 12, 2015 | Chengdu, China
- **Invited Speaker** | *Ethnobotanical methods for biocultural diversity conservation* | Sichuan University | Dec. 4, 2015 | Chengdu, China

Conference Presentations & Published Abstracts

- **Presenter** | **Seyler, B**. | *Understanding how increasing urbanization affects biocultural diversity preservation in Sichuan Province, China* | 8th China–U.S. Young Scientist Forum, China Science and Technology Exchange Center | July 31, 2015 | Beijing, China

- **Presenter** | **Seyler, B**. | *An ethnobotanical approach to orchid conservation in Sichuan Province, China* | 9th International Symposium on the Diversity and Conservation of Asian Orchids, Fujian Agriculture and Forestry University | Nov. 17, 2013 | Fuzhou, China
- **Presenter** | **Seyler, B**., R. Lyons, P. Meyer, C.-M.M. Tu | *Proposal for the establishment of a mutually beneficial botanical staff exchange program between China and the United States*. *HortScience* 44(4): 1047 (Published Abstract) | American Society for Horticultural Science Annual Meeting | July 28, 2009 | St. Louis, MO
- **Presenter** | **Seyler, B**. | *Sino-American botanical exchange: encouraging greater botanical collaboration through a mutually beneficial staff exchange program* | American Public Gardens Association Annual Conference | June 25, 2009 | St. Louis, MO
- **Presenter** | **Seyler, B**., R. Lyons, P. Meyer, C.-M.M. Tu | *Sino-American botanical exchange: encouraging greater botanical collaboration through a mutually beneficial staff exchange program* | *HortScience* 44(3): 547 (Published Abstract) | American Society for Horticultural Science Northeast Region Annual Meeting, University of Delaware | Jan. 8–10, 2009 | Newark, DE
- **Co-author** | Quirey, M., J. Bergquist, D. Burcham, S. Edelson, A. Gapinski, J. Pixler, K. Purcell, **B. Seyler**, D. Stern, R. Lyons | *Plant Collections Management at Welkinweir: A Professional Outreach Project in the Longwood Graduate Program* | *HortScience* 44(3): 548 (Published Abstract) | American Society for Horticultural Science Northeast Region Annual Meeting, University of Delaware | Jan. 8–10, 2009 | Newark, DE
- **Presenter** | **Seyler, B**. | *Trends in Sino-American horticultural perspectives* | Greater Philadelphia Asian Studies Colloquium's 2nd Annual Undergraduate Research Conference, Ursinus College | April 14, 2007 | Collegeville, PA

INTERNATIONAL & CROSS-CULTURAL ENGAGEMENT

- **China (2005–2025)** | More than eight years of full-time research, teaching, and professional activity in China, principally at Sichuan University and Chengdu Shude High School. Conducted horticultural, ethnobotanical, and environmental field research across 18 provincial-level jurisdictions; collaborated with universities, botanical gardens, and horticultural professionals; and mentored students from diverse cultural backgrounds.
- **East & Southeast Asia** | Academic and professional exchange involving botanical gardens, universities, and research institutions in **Singapore** (2008, 2013, 2019), **Brunei** (2015), **Malaysia** (2008, 2013), **Thailand** (2008), **Korea** (2015, 2019), and **Japan** (2019); invited lectures and professional exchange activities.
- **South Asia** | Independent cultural and botanical engagement in **India** (2014) and **Nepal** (2010)
- ***US-Asia Exchange Facilitation*** | Coordinated international visits and professional exchanges; supported visiting delegations, international fieldwork, translation, and cross-cultural communication involving horticultural, academic, and cultural institutions.

PROFESSIONAL MEMBERSHIPS

American Society for Horticultural Science (ASHS) | Society for Ethnobotany (SEB) | Association for Asian Studies (AAS)

LANGUAGES & RESEARCH TOOLS

Languages | English (native); Mandarin Chinese (fluent)

Analytic & spatial tools | R / RStudio; ArcGIS; NVivo