

CURRICULUM VITAE



Dr. Sonja Knapp

Helmholtz Centre for Environmental Research – UFZ
Department Community Ecology
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Born December 7, 1980, Tübingen, Germany
Nationality: German

Halle (Saale), 2025/05/15

A handwritten signature in blue ink. The signature is stylized and appears to read 'Sonja Knapp'.

EDUCATION

- 01/2009 Johann Wolfgang Goethe-University Frankfurt (Main), Germany, Department of Biological Sciences: PhD graduation (Dr. phil. nat.), rated "very good"
Topic: "Plant Biodiversity in Urbanized Areas – Analyses of Plant Functional Traits in Space and Time, Plant Rarity and Phylogenetic Diversity"
Supervisors: Prof. Dr. Rüdiger Wittig, Dr. Stefan Klotz
- 11/2005 Eberhard Karls University Tübingen, Germany, Faculty of Biology and Faculty of Geosciences: Diploma Geoecology/ Ecosystem management (Dipl. Geoökol.), rated: "very good" (1,2)
Topic: "Species diversity in urban and rural protected areas. Analysing the relationship of species diversity with landscape structure and the location along the urban-to-rural gradient in the city of Halle (Saale) and the district of Saalkreis"
Supervisors: Prof. Dr. Dr. h.c. Volker Mosbrugger, Dr. Stefan Klotz
- 2000 - 2005 Eberhard Karls University Tübingen, Germany: Studying Geoecology/ Ecosystem Management
- 1991 - 2000 Isolde-Kurz-Gymnasium Reutlingen: Abitur, rated "very good" (1,4)

EMPLOYMENT

- Since 3/2025 Helmholtz Centre for Environmental Research – UFZ, Halle (Saale), Germany, Department Community Ecology: Department head (co-head)
- Since 5/2023 Helmholtz Centre for Environmental Research – UFZ, Halle (Saale), Germany, Department Community Ecology: Department head deputy
- Since 4/2023 Helmholtz Centre for Environmental Research – UFZ, Halle (Saale), Germany, Department Community Ecology: Leader of working group "Macroecology and Vegetation Science"
- 11/2018 - 09/2019 Technical University Berlin, School VI - Planning Building Environment, Institute for Ecology, Chair for Urban Ecology: Visiting professorship
- Since 12/2017 Helmholtz Centre for Environmental Research – UFZ, Halle (Saale), Germany, Department Community Ecology: Senior scientist
- 1/2009 - 1/2017 Helmholtz Centre for Environmental Research – UFZ, Halle (Saale), Germany, Department Community Ecology: PostDoc
- 2/2009 - 4/2009 University of Minnesota, St. Paul, USA, Department of Ecology, Evolution and Behavior, Jeannine Cavender-Bares Lab: Visiting PostDoc
- 2006 - 2008 Helmholtz Centre for Environmental Research – UFZ, Halle (Saale), Germany, Department Community Ecology: PhD-student
- 12/2005 Helmholtz Centre for Environmental Research – UFZ, Halle (Saale), Germany, Department Community Ecology: Research assistant

RESEARCH PROJECTS

- Since 2024 PaDRE - Patterns and drivers of regional plant extinctions. Main PI. Funding: iDiv
- Since 2023 Functional traits and ecosystem services to support urban planning. Co-PI. Funding: Helmholtz Information & Data Science Academy (HIDA)
- Since 2023 Comparative urban ecology: developing methods to assess urban social-ecological networks across realms and regions. Involved scientist. Funding: DFG
- Since 2023 sGUBIK - Synthesizing Global Urban Biological Invasion Knowledge: Patterns, Mechanisms, and Applications. Involved scientist. Funding: sDiv
- 2023 - 2024 Rückzugsräume für die Biozönose in Agrarlandschaften: GIS- und fernerkundungsbasierte Erfassung und Bewertung potentieller Refugialflächen und Gewässerrandstreifen. PI sub-project. Funding: BMI

2021 - 2027	Helmholtz-Programme "Changing Earth - Sustaining our Future": Involved scientist in integrated platform "Sustainability Transformations", project "Resilient Cities". Funding: Helmholtz Association
2021 - 2024	Faktencheck Artenvielfalt: Lead-author for urban areas chapter. Funding: BMBF
2019 - 2021	Helmholtz Climate Initiative - HI-CAM: Involved Scientist in key area "Adapting to the Impacts of Climate Change". Funding: Helmholtz Association
2017 - 2021	UrBioNet (Urban Biodiversity Network) "Patterns, Drivers and Traits Working Group": Involved scientists. Funding: National Science Foundation, USA
2017 - 2018	sUrBioCity – Deciphering Drivers of Urban Biodiversity across Multiple Scales: Involved scientists. Funding: sDiv
2014 - 2020	Citizen Science-project "Recording the flora and fauna of protected areas in the city of Halle (Saale)": Coordinator. Funding: UFZ and City of Halle (Saale), Germany
2014 - 2020	Helmholtz-Programme "Terrestrial Environment" III: Involved scientist in project "Mitigating land-use conflicts – between land sparing and land sharing". Funding: Helmholtz Association
2014 – 2020	Helmholtz-Programme "Terrestrial Environment" III: Involved scientist in project "Urban transformations – sustainable urban development towards resource efficiency, quality of life and resilience". Funding: Helmholtz Association
2013 - 2016	"Natural Capital Germany – TEEB-DE": Chapter-Coordinator for the report on "Ecosystem services in cities – Protecting health and enhancing quality of life". Scientific support and funding: BfN and BMBF
2009	"Dynamics of Coupled Human and Natural Systems program for the Twin Cities Household Ecosystem Project" and Cedar Creek Long-Term Ecological Research (DEB-0620652): Guest scientist at University of Minnesota. Funding: National Science Foundation, USA
2009 - 2013	Helmholtz-Programme "Terrestrial Environment" II: Involved scientist in cluster "Impacts of climate change on ecological patterns and processes". Funding: Helmholtz Association
2008 - 2011	"RAME - Research Association Mining and Environment in Vietnam": Coordinator of work package "Plant-based methods for the sustainable recultivation of mining sites and the treatment of waste water". Funding: BMBF

INVITED TALKS (SELECTION)

11/2022	"Naturschutzkonferenz 2022 Sachsen-Anhalt – Naturschutz in der Stadt"; Halle, Germany
09/2019	"Stadtgrün naturnah"; Deutsche Umwelthilfe e.V. & Kommunen für biologische Vielfalt e.V., Bonn, Germany
11/2017	"Naturschutztag Schleswig-Holstein 2017 – Natur in Dorf und Stadt", Neumünster, Germany
11/2015	Education training workshop for gymnasium biology teachers, administrative region of Arnsberg, Germany
03/2015	Workshop "Nature-based solutions to climate change [...] in urban areas" of the German Federal Agency for Nature Conservation (BfN) and the European Network of Heads of Nature Conservation Agencies (ENCA), Isle of Vilm, Germany
10/2014	Conference "United Nations decade on biodiversity" of the German Federal Environmental Foundation, Leipzig, Germany
03/2014	4th British-German Frontiers of Science Symposium of German Young Academy, UK Royal Society, and Alexander von Humboldt Foundation, Potsdam, Germany

TEACHING

2024	Nürtingen-Geislingen University: "Stadtökologie & biodiverse Stadt" (BSc Landscape Planning and Nature Conservation)
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2022	Ruhr-University Bochum: Bochum International Seminar on the Transformation of Urban Spaces (BISTUS XI): Urban Biodiversity – The Relevance and Applicability of Functional Traits
2019	TU Berlin: "Naturschutz und Stadtökologie" (BSc Ecology and Environmental Planning)
2018	TU Berlin: Lectures on urban ecosystem services, nature-based solutions, and soils within lecture "Grundlagen der Stadtökologie" and "History and Perspectives of Urban Regions"
2016 - 2023	TU Berlin: "Funktionelle Biodiversität in der Stadt – Messung und Berechnung" (MSc Urban Ecology, BSc Ecology and Environmental Planning)
2015 - 2024	TU Berlin: "Urbane Biodiversität – funktionelle Merkmale und phylogenetische Diversität" (MSc Urban Ecology, BSc Ecology and Environmental Planning)
2015 - 2018	MLU Halle-Wittenberg: Lectures in module "Freilandökologie" (MA Biology)
2013 - 2016	HIGRADE-graduate school, Helmholtz Centre for Environmental Research – UFZ: Introductory lectures and seminar on biodiversity
2012 - 2014	MLU Halle-Wittenberg: Co-supervision of seminar group, basic ecological practical course in Geobotany (2014 & 2013: BIO.03069.0; 2012: 2671)

(Co-) SUPERVISION OF STUDENTS – PHD

Since 2013	E. Felgentreff (MSc. TU Berlin), L. Dädlow (MSc. Ruhr-University Bochum), M. Bole (MSc. University of Ljubljana), C. Hecht (MSc. TU Freiberg), V. Volke (MSc. TU Dresden), E. Mollenkopf (MSc. MLU Halle-Wittenberg), M. Milanović (MSc. University of Belgrade, MSc. University of Kiel), M. Hanisch (MSc. University Leipzig), M. Jaganmohan (MSc. Bangalore University)
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(Co-) SUPERVISION OF STUDENTS – MASTER, BACHELOR, DIPLOMA

Since 2007	D. Wehner (Bachelor, TU Berlin), L. Rehn (Master, HfWU Nürtingen-Geislingen), B. Gottwald (Bachelor, TU Berlin), B. Weinrich (Master, TU Berlin), H. Zaunstöck (Bachelor, MLU Halle-Wittenberg), T. Wittmann (Master, TU Kaiserslautern); J. Glahe (Bachelor, TU Berlin); L. Hess (Bachelor, TU Berlin); S. Minino Holldack (Bachelor, TU Berlin); P. Röpnack (Bachelor, TU Berlin); R. Schneider (Bachelor, TU Berlin); M. Winter (Bachelor, TU Berlin); A. Schulz (Bachelor, TU Berlin); K. Michel (Master, TU Berlin); F. Kliem (Bachelor, TU Berlin); L. Ramke (Bachelor, TU Berlin); M. Biazeck (Bachelor, TU Berlin); L. Heupel (Bachelor, TU Berlin); L. Winker (Bachelor, TU Berlin); R. A. Urrego Alvarez (Master, TU Dresden); D. Kurch (Diploma, University of Koblenz-Landau); M. Eckhardt (Bachelor, TU Berlin); S. Witte (Master, MLU Halle-Wittenberg); S. Werner (Master, MLU Halle-Wittenberg); V. Volke (Master, TU Dresden); A. Scholz (Diploma, University Leipzig)
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SUPERVISION OF INTERNS

Since 2009	M. Baumgarten (B.Sc.-student TU Berlin), R. Vial (MSc.-student Muséum National d'Histoire Naturelle, Paris), G. Silla (BA student Barnard College, Columbia University New York, US), J. Pohl (Scholar Georg-Cantor-Gymnasium Halle), E. Kaplan (MSc. Middle East Technical University, Turkey); S. Werner (MSc.-student MLU Halle-Wittenberg); F. Hummel (Scholar Landesschule Pforta Sachsen-Anhalt); C. Heitzer (High-school graduate Leibniz Gymnasium Dortmund/ Dortmund International School); V. Hoeber (B.Sc.-student MLU Halle-Wittenberg); M. Schmid (B.Sc.-student University of Tübingen); S. Schneider (Participant of "Biologieolympiade", Biologieolympiade e.V.); G. Müller (B.Sc.-student University of Tübingen)
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PROFESSIONAL AND EDITORIAL SERVICES (SELECTION)

Since 2024	Editorial Board Member, "Perspectives in Plant Ecology, Evolution and Systematics (PPEES)"
2022	Member of Conference Organization Committee and Session chair at conference of URBIO-International Network Urban Biodiversity and Design conference, Leipzig, Germany
2022	Member of Scientific Committee and Session chair at SFE ² -GfÖ-EEF joint meeting "Ecology and Evolution: New perspectives and societal challenges", Metz, France

Since 2022	Spokesperson of working group "Good Scientific Practice" of UFZ's Scientific-Technical Council
2022 - 2023	Spokesperson of working group "Science Awards" of UFZ's Scientific-Technical Council
2021 - 2025	Ombudsperson for good scientific practice, Helmholtz Centre for Environmental Research-UFZ
2021 - 2024	General Secretary, European Ecological Federation
Since 2021	Co-chair of specialist group "Urban Ecology" within GfÖ
Since 2021	Editorial Board Member, "Urban Ecosystems"
Since 2019	Member of Scientific and Technical Council at UFZ
2018 - 2022	Associate Editor, "Frontiers in Environmental Science", section "Land Use Dynamics"
Since 2017	Editorial Board Member, "Web Ecology"
2015	Session chair at 58th Annual Symposium of the International Association for Vegetation Science, Brno, Czech Republic
2014	Coordinator of 8th Specialist Group Macroecology meeting within GfÖ, Halle (Saale), Germany
Since 2014	Editorial Board Member, "Urban Naturalist" (2017 - 2019: Managing Editor)
2013	Session chair at 43rd Annual Conference of the GfÖ, Potsdam, Germany
2010 - 2014	Board member and chairwoman (2012 - 2014), Association for Geoecology in Germany e.V.

PROFESSIONAL MEMBERSHIPS

Since 2015	Urban Biodiversity Network (UrBioNet)
Since 2015	Society for Urban Ecology (SURE)
Since 2011	Ecological Society of Germany, Austria and Switzerland (GfÖ)
Since 2001	Association for Geoecology in Germany e.V. (VGöD)

AWARDS AND HONOURS

Since 2021	Member of German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig
2014 - 2015	Selected member of the Helmholtz Mentoring Programme "Taking the Lead"
2008	3rd prize for best talk at the 4th UFZ-PhD conference, Leipzig, April 2008

PUBLIC OUTREACH (SELECTION)

2025	logo! (TV-news for children at ZDFtivi) about adaptations of plant species to urban environments
2024	ZDF heute TV-news at the International Day for Biological Diversity (led by M. Hugo)
2022	Bayerischer Rundfunk TV-show "Gut zu wissen – Stadt, Land oder Wildnis – Wie schützen wir Artenvielfalt am besten?" (led by J. Kerckhoff)
2020	Klima – schützen und anpassen. Ein UFZ-Forschungsspaziergang. www.ufz.de/index.php?de=47691
2018	SWR radio interview "Zufluchtsort für Pflanzen und Tiere – Retten Gärten die biologische Vielfalt?"
2017	3sat TV-show „nano“ at the International Day for Biological Diversity
2014	Mitteldeutscher Rundfunk TV-show "Lexi TV – Wildnis Sommer" (led by M. Endt)
2010	Newspaper-article "Pflanzen auf Wanderschaft" published in Mitteldeutsche Zeitung 2010/09/08 by journalist J. Klabuhn
2008	Deutschlandfunk radio report "Gleichförmige Vielfalt - Artenreichtum der Städte gleicht sich auf der ganzen Welt" by journalist V. Wildermuth

LIST OF PUBLICATIONS, SONJA KNAPP

AVERAGE CITATIONS PER ARTICLE 82.05; H-INDEX = 29 (WEB OF SCIENCE, 2025/05/15)

PEER-REVIEWED

- Ramke, L., **Knapp, S.**, Straka, T.M. (2025) How does the choice of trees in favour of high carbon storage benefit faunistic biodiversity in urban areas? A systematic review. *Landscape and Urban Planning* 261, Article 105404
- Milanović, M., Bakker, J., Biederman, L., Borer, E., Catford, J., Cleland, E., Hagenah, N., Haider, S., Harpole, W.S., Komatsu, K., MacDougall, A., Römermann, C., Seabloom, E., **Knapp, S.**, Kühn, I. (2025) Successful alien plant species exhibit functional dissimilarity from natives under varied climatic conditions but not under increased nutrient availability. *Journal of Vegetation Science* 36(2), e70032
- Li, D., Potgieter, L.J., Aronson, M.F.J., Axmanová, I., Baiser, B., Carboni, M., Celesti-Grapow, L., **Knapp, S.**, Kühn, I., Lacerda de Matos, A.C., Lososová, Z., Montaña-Centellas, F.A., Pyšek, P., Richardson, D.M., Trotta, L.B., Zenni, R.D., Cilliers, S.S., Clarkson, B.D., Davis, A.J.S., Dolan, R.W., Dyderski, M.K., Essl, F., Gaoue, O.G., Gui, J., Geron, C., Heringer, G., Hui, C., Khuroo, A.A., Klotz, S., Kotanen, P.M., Kreft, H., La Sorte, F.A., Lembrechts, J.J., Lenzner, B., Lepczyk, C.A., MacIvor, J.S., Martínez-Garza, C., Mori, A.S., Nilon, C.H., Pergl, J., Siebert, S., Tretyakova, A.S., Tsang, T.P.N., Uchida, K., van Kleunen, M., Vilà, M., Wang, H.-F., Weigelt, P., Werner, P., Williams, N.S.G., Winter, M., Cadotte, M.W. (2025) GUBIC: the global urban biological invasions compendium for plants. *Ecological Solutions and Evidence* 6(1): e70020
- Golivets, M., **Knapp, S.**, Essl, F., Lenzner, B., Latombe, G., Leung, B., Kühn, I. (2024) Future changes in key plant traits across Central Europe vary with biogeographical status, woodiness, and habitat type. *Science of the Total Environment* 907, 167954
- Hahs A.K. & Fournier B., Aronson M.F.J., Nilon C.H., Herrera-Montes A., Salisbury A., Threlfall C.G., Rega-Brodsky C.C., Lepczyk C.A., La Sorte F.A., MacGregor-Fors I., MacIvor J.S., Jung K., Piana M.R., Williams N.S.G., **Knapp S.**, Vergnes A., Acevedo A.A., Gainsbury A.M., Rainho A., Hamer A.J., Shwartz A., Voigt C.C., Lewanzik D., Lowenstein D.M., O'Brien D., Tommasi D., Pineda E., Carpenter E.S., Belskaya E., Lövei G., Makinson J.C., Coleman J., Sadler J.P., Shroyer J., Shapiro J.T., Baldock K.C.R., Ksiazek-Mikenas K., Matteson K.C., Barrett K., Siles L., Aguirre L.F., Orlando Armesto L., Zalewski M., Herrera-Montes M.I., Obrist M.K., Toniello R.K., Gagné S.A., Hinners S.J., Latty T., Surasinghe T.D., Sattler T., Magura T., Ulrich W., Elek Z., Castañeda-Oviedo J., Torrado R., and Kotze D.J. & Moretti M. (2023) Urbanisation generates multiple trait syndromes for terrestrial animal taxa worldwide. *Nature Communications* 14, 4751
- Hahs A.K. & Fournier B., Aronson M.F.J., Nilon C.H., Herrera-Montes A., Salisbury A., Threlfall C.G., Rega-Brodsky C.C., Lepczyk C.A., La Sorte F.A., MacGregor-Fors I., MacIvor J.S., Jung K., Piana M.R., Williams N.S.G., **Knapp S.**, Acevedo A.A., Gainsbury A.M., Rainho A., Hamer A.J., Shwartz A., Voigt C.C., Lewanzik D., Lowenstein D.M., O'Brien D., Tommasi D., Pineda E., Carpenter E.S., Belskaya E., Lövei G., Makinson J.C., Castañeda-Oviedo J., Coleman J., Sadler J.P., Shroyer J., Shapiro J.T., Baldock K.C.R., Ksiazek-Mikenas K., Matteson K.C., Barrett K., Siles L., Aguirre L.F., Orlando Armesto L., Zalewski M., Herrera-Montes M.I., Obrist M.K., Toniello R.K., Torrado R., Gagné S.A., Hinners S.J., Latty T., Surasinghe T.D., Sattler T., Magura T., Ulrich W., Elek Z., and Kotze D.J. & Moretti M. (2023) Datasets: Urbanisation generates multiple trait syndromes for terrestrial animal taxa worldwide (1.0.0) [Data set]. Zenodo, <https://doi.org/10.5281/zenodo.7866249>
- Wellmann, T., Andersson, E., **Knapp, S.**, Lausch, A., Palliwoda, J., Priess, J., Scheuer, S., Haase, D. (2023) Reinforcing nature-based solutions through tools providing social-ecological-technological integration. *Ambio* 52, 489-507. <https://doi.org/10.1007/s13280-022-01801-4>
- Knapp, S.**, von der Lippe, M., Kowarik, I. (2022) Interactions of Functional Traits With Native Status and Ecosystem Novelty Explain the Establishment of Plant Species Within Urban Ecosystems: Evidence From Berlin, Germany. *Frontiers in Ecology and Evolution* 10: 790340. doi: 10.3389/fevo.2022.790340
- Rega-Brodsky, C.C., Aronson, M.F.J., Piana, M.R., Carpenter, E.-S., Hahs, A.K., Herrera-Montes, A., **Knapp, S.**, Kotze, D.J., Lepczyk, C.A., Moretti, M., Salisbury, A.B., Williams, N.S.G., Jung, K., Katti, M., MacGregor-Fors, I., MacIvor, J.S., La Sorte, F.A., Sheel, V., Threlfall, C.G., Nilon, C.H. (2022) Urban biodiversity: State of the science and future directions. *Urban Ecosystems* 25, 1083-1096

- Swan, C.M., Brown, B., Borowy, D., Cavender-Bares, J., Jeliaskov, A., **Knapp, S.**, Lososová, Z., Padullés Cubino, J., Pavoine, S., Ricotta, C., Sol, D. (2021) A framework for understanding how biodiversity patterns unfold across multiple spatial scales in urban ecosystems. *Ecosphere* 12 (7) e03650
- Milanović, M., Kühn, I., Pysek, P., **Knapp, S.** (2021) Functional diversity changes in native and alien urban flora over three centuries. *Biological Invasions* 23, 2337-2353
- Knapp, S.**, Aronson, M.F.J., Carpenter, E., Herrera-Montes, A., Jung, K., Kotze, D.J., La Sorte, F.A., Lepczyk, C.A., MacGregor-Fors, I., MacIvor, J.S., Moretti, M., Nilon, C.H., Piana, M.R., Rega-Brodsky, C.C., Salisbury, A., Threlfall, C.G., Trisos, C., Williams, N.S.G., Hahs, A.K. (2021) A Research Agenda for Urban Biodiversity in the Global Extinction Crisis. *BioScience* 71 (3), 268-279
- Marselle, M.R., Hartig, T., Cox, D.T.C., de Bell, S., **Knapp, S.**, Lindley, S., Triguero-Mas, M., Böhning-Gaese, K., Braubach, M., Cook, P.A., de Vries, S., Heintz-Buschart, A. Hofmann, M., Irvine, K.N., Kabisch, N., Kolek, F., Kraemer, R., Markevych, I., Martens, D., Müller, R., Nieuwenhuijsen, M., Potts, J.M., Stadler, J., Walton, S., Warber, S.L., Bonn, A. (2021) Pathways linking biodiversity to human health: A conceptual framework. *Environment International* 150, 106420
- Padullés Cubino, J., Borowy, D., **Knapp, S.**, Lososová, Z., Ricotta, C., Siebert, S., Cavender-Bares, J., Sol, D., Jeliaskov, A., Swan, C. (2021) Contrasting impacts of cultivated exotics on the functional diversity of domestic gardens in three regions with different aridity. *Ecosystems* 24, 875–890
- Wellmann, T., Lausch, A., Andersson, E., **Knapp, S.**, Cortinovis, C., Jache, J., Scheuer, S., Kremer, P., Mascarenhas, A., Kraemer, R., Haase, A., Schug, F., Haase, D. (2020) Remote sensing in urban planning: Contributions towards ecologically sound policies? *Landscape and Urban Planning* 204, 103921
- Hanisch, M., Schweiger, O., Cord, A. F., Volk, M., **Knapp, S.** (2020) Plant functional traits shape multiple ecosystem services, their trade-offs and synergies in grasslands. *Journal of Applied Ecology* 57 (8), 1535-1550
- Milanović, M., **Knapp, S.**, Pyšek, P., Kühn, I. (2020) Trait–environment relationships of plant species at different stages of the introduction process. *NeoBiota* 58, 55-74
- Cavender-Bares, J., Padullés Cubino, J., Pearse, W. D., Hobbie, S. E., Lange, A. J., **Knapp, S.**, Nelson, K. C. (2020) Horticultural availability and homeowner preferences drive plant diversity and composition in urban yards. *Ecological Applications*, 30 (4), e02082
- Kondratyeva, A., **Knapp, S.**, Durka, W., Kühn, I., Vallet, J., Machon, N., Martin, G., Motard, E., Grandcolas, E., Pavoine, S. (2020) Urbanization effects on biodiversity revealed by a two-scale analysis of species functional uniqueness versus redundancy. *Frontiers in Ecology and Evolution* 8:73
- Schwarz, N., Hoffmann, F., Knapp, S., Strauch, M. (2020) Synergies or trade-offs? Optimizing a virtual urban region to foster plant species richness, climate regulation and compactness under varying landscape composition. *Frontiers in Environmental Science* 8:16
- Milanović, M., **Knapp, S.**, Pyšek, P. & Kühn, I. (2020) Linking traits of invasive plants with ecosystem services and disservices. *Ecosystem Services* 42, 101072
- Knapp, S.**, Schmauck, S., Zehnsdorf, A. (2019) Biodiversity impact of green roofs and constructed wetlands as progressive eco-technologies in urban areas. *Sustainability* 11, 5846
- Volke, V., **Knapp, S.**, Roloff, A. (2019) Survey of *Hymenoscyphus fraxineus* in a central European urban area and exploration of its possible environmental drivers. *Urban Forestry and Urban Greening* 40, 165-173
- Lausch, A., Bastian O., Klotz, S., Leitão, P.J., Jung, A., Rocchini, D., Schaepman, M.E., Skidmore, A.K., Tischendorf, L., **Knapp, S.** (2018) Understanding and assessing vegetation health by in-situ species and remote sensing approaches. *Methods in Ecology and Evolution* 9, 1799-1809
- Lausch, A., Borg, E., Bumberger, J., Dietrich, P., Heurich, M., Huth, A., Jung, A., Klenke, R., **Knapp, S.**, Mollenhauer, H., Paasche, H., Paulheim, H., Pause, M., Schweitzer, C., Schmulius, C., Settele, J., Skidmore, A.K., Wegmann, M., Zacharias, S., Kirsten, T. & Schaepman, M.E. (2018) Understanding Forest Health with Remote Sensing, Part III: Requirements for a Scalable Multi-Source Forest Health Monitoring Network Based on Data Science Approaches. *Remote Sensing* 10, 1120

- Wellmann, T., Haase, D., **Knapp, S.**, Salbach, C., Selsam, P., Lausch, A. (2018) Urban land use intensity assessment: The potential of spatio-temporal spectral traits with remote sensing. *Ecological Indicators* 85, 190-203
- Schwarz, N., Moretti, M., Bugalho, M., Davies, Z., Haase, D., Hack, J., Hof, A., Melero, Y., Pett, T., **Knapp, S.** (2017) Understanding biodiversity-ecosystem service relationships in urban areas: a comprehensive literature review. *Ecosystem Services* 27, 161-171
- Stadler, J., Klotz, S., Brandl, R., **Knapp, S.** (2017) Species richness and phylogenetic structure in plant communities: 20 years of succession. *Web Ecology* 17, 37-46
- Knapp, S.**, Winter, M., Klotz, S. (2017) Increasing species richness, but decreasing phylogenetic richness and divergence over a 320 year period of urbanization. *Journal of Applied Ecology* 54 (4), 1152-1160
- Banzhaf, E., Kabisch, S., **Knapp, S.**, Rink, D., Wolff, M., Kindler, A. (2017) Integrated Research on Land-Use Changes in the Face of Urban Transformations – an Analytic Framework for Further Studies. *Land Use Policy*, 60, 403-407
- Knapp, S.**, Schweiger, O., Kraberg, A., Asmus, H., Asmus, R. Brey, T., Frickenhaus, S., Gutt, J., Kühn, I., Liess, M., Musche, M., Pörtner, H.-O., Seppelt, R., Klotz, S. & Krause, G. (2017) Do drivers of biodiversity change differ in importance across marine and terrestrial systems - or is it just different research communities' perspectives? *Science of the Total Environment*, 574, 191-203
- Kabisch, N., Frantzeskaki, N., Pauleit, S., Naumann, S., Davis, M., Artmann, M., Haase, D., **Knapp, S.**, Korn, H., Stadler, J., Zaunberger, K., Bonn, A. (2016) Nature-based solutions to climate change mitigation and adaptation in urban areas - perspectives on indicators, knowledge gaps, barriers and opportunities for action. *Ecology and Society*, 21 (2): 39
- Knapp, S.**, Stadler, J., Harpke, A. & Klotz, S. (2016) Dispersal traits as indicators of vegetation dynamics in long-term old-field succession. *Ecological Indicators*, 65, 44-54
- Jaganmohan, M., **Knapp, S.**, Buchmann, C.M. & Schwarz, N. (2016) The bigger, the better? The influence of urban green space design on cooling effects for residential areas. *Journal of Environmental Quality*, 45, 134-145
- Wang H.-F., Qureshi, S., **Knapp, S.**, Friedman, C.R. & Hubacek, K. (2015) A basic assessment of residential plant diversity and its ecosystem services and disservices in Beijing, China. *Applied Geography* 64, 121-131
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BOOKS, BOOK-CHAPTERS, REPORTS, AND MORE

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Knapp, S., Kraberg, A., Frickenhaus, S., Klotz, S., Schweiger, O., Krause, G. (2018) Linking Biodiversity Research Communities. In: Krause, G. (Ed.) Building Bridges at the Science-Stakeholder Interface. Towards Knowledge Exchange in Earth System Science. Springer International Publishing AG, p. 39-45

Kabisch, S., Koch, F., Gawel, E., Haase, A., **Knapp, S.**, Krellenberg, K., Nivala, J., Zehnsdorf, A. (Eds.) (2018) Urban Transformations - Sustainable Urban Development Through Resource Efficiency, Quality of Life and Resilience. Future City 10, Springer International Publishing AG

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- Knapp, S.**, Keil, A., Keil, P., Reidl, K., Rink, D., Schemel, H.-J. (2016) Naturerleben, Naturerfahrung und Umweltbildung. In: Kowarik, I., Bartz, R., Brenck, M. (Eds.) Naturkapital Deutschland – TEEB DE: Ökosystemleistungen in der Stadt – Gesundheit schützen und Lebensqualität erhöhen, S. 146 – 169. TU Berlin, Helmholtz-Zentrum für Umweltforschung – UFZ. Berlin, Leipzig. (in press)
- Fischer, F., Schneider, H., Fröhle, K., **Knapp, S.**, Locher, R., Reidl, K., Rink, D., Schwarze-Rodrian, M. (2016) Natur und Wirtschaft. In: Kowarik, I., Bartz, R., Brenck, M. (Eds.) Naturkapital Deutschland – TEEB DE: Ökosystemleistungen in der Stadt – Gesundheit schützen und Lebensqualität erhöhen, S. 203 – 215. TU Berlin, Helmholtz-Zentrum für Umweltforschung – UFZ. Berlin, Leipzig.
- Knapp, S.** (2014) The Urban Garden: A Centre of Interactions Between People and Biodiversity. In: Kabisch, N., Larondelle, N., Reeve, A., Artmann, M. (Eds.) Human-Environmental Interactions in Cities: Challenges and Opportunities of Urban Land Use Planning and Green Infrastructure, p. 82-99, Cambridge Scholars Publishing, Newcastle Upon Tyne.
- Knapp, S.** (2010) Plant biodiversity in urbanized areas. Plant functional traits in space and time, plant rarity and phylogenetic diversity. Vieweg + Teubner, GWV Fachverlage GmbH, Wiesbaden; 150 pp.

CONFERENCE AND WORKSHOP PRESENTATIONS (SELECTION)

- Knapp, S.** (2021) Urbanization and Global Biodiversity Loss. Invited talk at "Städtebau-Kolloquium" of University of Stuttgart, Germany
- Knapp, S.** (2021) Halles Schutzgebiete - Grüne Kleinode inmitten der Stadt. Invited talk at celebrations of German Unity Day, Halle (Saale), Germany
- Volke, V., **Knapp, S.**, Schlink, U. (2021) Assessing the cooling potential and drought resistance of street trees by species' functional traits. Talk at 3rd Sure World Conference 2020/21, Poznan. Poland / online
- Knapp, S.** (2020) Insekten in der Stadt. Invited talk at "Aktionstag Artenvielfalt", Leipzig, Germany
- Knapp, S.** (2019) Natur in der Stadt: Potenziale zum Erhalt der Biodiversität. Invited talk at conference "StadtGrün naturnah - Handlungsspielräume für mehr Vielfalt im kommunalen Grün", Bonn, Germany
- Knapp, S.** (2018) Biologische Vielfalt in Städten: Trends und Konsequenzen. Invited talk at Umweltbibliothek Leipzig, Germany
- Knapp, S.** (2017) Grün in der Stadt: Potenziale zum Erhalt der Biodiversität. Talk at "Naturschutztag Schleswig-Holstein 2017 – Natur in Dorf und Stadt", Neumünster, Germany
- Knapp, S.** (2017) Can we enhance ecosystem services by protecting biodiversity in urban areas? Talk at GreenSurge: Urban Green Infrastructure. Connecting people and Nature for Sustainable Cities. Malmö, Sweden
- Knapp, S.** (2016) Ecology and Evolution in Urban Systems. Talk at conference "The 150th Anniversary of the Ecology Concept" of the European Ecological Federation, Leipzig, Germany
- Knapp, S.** (2015) Effects of urbanization on plant biodiversity - insights into functions and phylogenetics. Talk at 32rd International Union of Biological Sciences Conference, Berlin, Germany
- Knapp, S.** (2015) Biodiversität in Städten – Ist die Vielfalt vor unserer Haustür schützenswert? Invited talk at Education training workshop for gymnasium biology teachers, administrative region of Arnsberg, Germany
- Knapp, S.** (2015) "Overview of biodiversity in urban areas" Talk at conference "Nature and Urban Wellbeing Nature-Based Solutions to Societal Challenges" organized by ALTER-Net, with the European Commission and under the auspices of the Latvian Presidency of the Council of the European Union, Ghent, Belgium
- Knapp, S.** (2015) "Impacts of Climate change on urban biodiversity (incl. invasive non-native species)" Invited talk at workshop "Nature-based solutions to climate change mitigation and adaptation in urban areas and their rural surroundings" of the Federal Agency of Nature Conservation, Germany together with the European Network of Heads of Nature Conservation Agencies, Vilm, Germany
- Knapp, S.** (2015) "Veränderungen der urbanen Biodiversität und der Bereitstellung von Ökosystemdienstleistungen durch den Klimawandel" Invited talk at conference of "Netzwerk Blühende Landschaften", Berlin, Germany
- Knapp, S.**, Winter, M., Klotz, S. (2015) "The legacy and future of phylogenetic diversity in urbanizing areas". Poster and flash talk at 7th Biennial Conference of the International Biogeography Society, Bayreuth, Germany

- Knapp, S.,** Hansjürgens, B., Brenck, M., Kowarik, I. & Bartz, R. (2014) "Vielfalt nutzen inmitten menschlicher Aktivität - Die Angebote der Natur in der Stadt". Invited talk at United Nations decade on biodiversity-conference, Leipzig, Germany
- Knapp, S.** (2014) "Ausbreitungsstrategien heimischer und gebietsfremder Pflanzenarten". Invited talk at training course for volunteers in nature conservation, Leipzig, Germany
- Knapp, S.** (2014) "Linking Biodiversity, Ecosystem Functions, and Human Wellbeing in Urban Areas". Flash talk and poster at 4th British-German Frontiers of Science Symposium of the Young Academy, Germany, the Royal Society, UK, and the Alexander von Humboldt Foundation, Germany, Potsdam, Germany
- Knapp, S.,** Cavender-Bares, J., Dinsmore, L., Fissore, C., Hobbie, S., Jacobsdottir, I., Kattge, J., King, J., Klotz, S., Lange, A.J., McFadden, J. & Nelson, K. (2013) "What's in my backyard? Effects of urbanization and yard management on plant biodiversity". Talk at 1st Congress of the Society for Urban Ecology, Berlin, Germany
- Knapp, S. & Kühn, I.** (2012) "Origin matters: Successful native and non-native plant species differ functionally". Talk at 6th annual conference of the specialist group "Macroecology" within the Ecological Society of Germany, Austria and Switzerland (GfÖ), Frankfurt (Main), Germany
- Knapp, S. & Wittig, R.** (2011) "Escaped ornamental species in village floras promote taxonomic homogenisation". Talk at 41st Annual Conference of the Ecological Society of Germany, Austria and Switzerland (GfÖ), Oldenburg, Germany
- Knapp, S.,** Klotz, S. & Cavender-Bares, J. (2011) "A comparison of plant phylogenetic and functional diversity across urban to rural gradients in the US and Europe". Invited talk at plenary meeting of the international TRY-network, Paris, France
- Knapp, S.,** Kühn, I., Stolle, J. & Klotz, S. (2010) "Changes in the functional composition of a Central European urban flora over three centuries". Talk at conference "Cracks in the Concrete Jungle – New Perspectives on Urban Ecology", Berlin, Germany
- Knapp, S.,** Dinsmore, L., Fissore, C., Jacobsdottir, I., Hobbie, S., King, J., Klotz, S., McFadden, J. & Cavender-Bares, J. (2010) "Functional and phylogenetic diversity of spontaneous garden floras". Talk at 40th Annual Conference of the Ecological Society of Germany, Austria and Switzerland (GfÖ), Giessen, Germany
- Knapp, S.,** Kühn, I., Stolle, J. & Klotz, S. (2010) "Die Flora der Stadt Halle und ihr funktioneller Wandel zwischen 1687 und 2008". Talk at 7th Annual meeting of the Long-Term Ecological Research Network Germany (LTER-D), Monschau-Höfen, Germany
- Knapp, S.,** Kühn, I., Schweiger, O. & Klotz, S. (2009) "Linking functional traits and phylogenetic diversity of urban floras". Talk at 10th International Congress of Ecology (INTECOL), Brisbane, Australia
- Scholz, A., **Knapp, S.,** Kühn, I., Freiberg, M. & Klotz, S. (2008) "The historic development of the flora of Leipzig". Poster at EURECO – 11th European Ecological Conference of the European Ecological Federation (with GfÖ), Leipzig, Germany
- Knapp, S.,** Kühn, I., Schweiger, O. & Klotz, S. (2008) "The hotspot is not that hot - functional and phylogenetic patterns of urban species diversity". Talk at Competence Network for Urban Ecology, Erfurt, Germany
- Knapp, S.,** Kühn, I. & Klotz, S. (2007) "The urban environment filters trait states". Poster at International Association for landscape Ecology (IALE), Ede-Wageningen, The Netherlands
- Knapp, S.,** Kühn, I. & Klotz, S. (2007) "Urbanisation causes shifts of species' trait state frequencies". Talk at 37th Annual Conference of the Ecological Society of Germany, Austria and Switzerland (GfÖ), Marburg, Germany
- Knapp, S.,** Kühn, I., Wittig, R. & Klotz, S. (2006) "Plant trait patterns in urban, agricultural and forested areas". Poster at International Conference on Macroecological Tools for Global Change Research, Potsdam, Germany
- Knapp, S.,** Kühn, I., Mosbrugger, V. & Klotz, S. (2006) "Comparing Species Diversity in Urban and Rural Protected Areas". Poster at 36th Annual Conference of the Ecological Society of Germany, Austria and Switzerland (GfÖ), Bremen, Germany