

## 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), 2026/04/01



## 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 2022 Comparative urban ecology: developing methods to assess urban social-ecological networks across realms and regions. Involved scientist. Funding: DFG
- 2023 - 2024 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
- 2023 Functional traits and ecosystem services to support urban planning. Co-PI. Funding: Helmholtz Information & Data Science Academy (HIDA)

Dr. Sonja Knapp

- 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)

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	W. da Silva (MSc. Universidade Federal de Lavras), 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	Y. M. Ten-Elsen (RWTH Aachen), 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. Hoerber (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)**

2025	Guest Editor, "Basic and Applied Ecology (BAAE)"
Since 2024	Spokesperson of the Integration Platform "Sustainable future land use" at UFZ
Since 2024	Editorial Board Member, "Perspectives in Plant Ecology, Evolution and Systematics (PPEES)"

Dr. Sonja Knapp

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 <sup>2</sup> -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
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

Association for Geoecology in Germany (VGÖD), Ecological Society of Germany, Austria and Switzerland (GfÖ), Society for Urban Ecology (SURE), Urban Biodiversity Network (UrBioNet)

#### 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. <a href="http://www.ufz.de/index.php?de=47691">www.ufz.de/index.php?de=47691</a>
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 92.11; H-INDEX = 31 (WEB OF SCIENCE, 2026/04/01)

### PEER-REVIEWED

- Straka, T.M., Bodin, Ö., Teodoro, J.D., Rickowski, F.S., Kluger, L.C., Porro, Z., Coleman, J.L., Lokatis, S., Cilliers, S.S., Dobbs, C., Egerer, M., Felipe-Lucia, M.R., Govaert, L., Guenat, S., Hahs, A.K., Kaushal, S.S., **Knapp, S.**, Kochalski, S., Lin, B.B., Livesley, S., Ruland, F., Threlfall, C.G., Williams, N.S.G., Jeschke, J.M. (accepted) The potential of social-ecological networks for urban ecology. *npj Urban Sustainability*
- MacGregor-Fors, I., Rega-Brodsky, C.C., Kotze, D.J., MacIvor, J.S., Hahs, A.K., Moretti, M., Williams, N.S.G., Lepczyk, C.A., Jung, K., Katti, M., **Knapp, S.**, La Sorte, F.A., Piana, M.R., Threlfall, C.G., Warren, P., Nilon, C.H., Aronson, M.F.J. (accepted) Navigating urban ecology: Conceptual and methodological insights. *Ecology*
- Kaiser, J., Keil, P., Bartz, R., Albert, C., Mayer, F., Mascarenhas, A., Wellmann, T., **Knapp, S.**, Scheunemann, N., Siebert, U., Sommer, M., Haase, D. (2026) Biodiversität in urbanen Räumen fördern: Verbreitung und Wirksamkeit. *Naturschutz und Landschaftsplanung (NuL) 58 (02): 26–36. <https://doi.org/10.1399/NuL.205405>*
- Richardson, D.M., Trotta, L.B., Aronson, M.F.J., Baiser, B., Cadotte, M.W., Carboni, M., Celesti-Gradow, L., **Knapp, S.**, Kühn, I., Lacerda de Matos, A.C., Lososová, Z., Li, D., Montaña-Centellas, F.A., Potgieter, L.J., Zenni, R.D., Pyšek, P. (2025) Here, There and Everywhere: Widespread Non-Native Plants in the World's Urban Ecosystems. *Global Ecology and Biogeography 34 (11): e70159. <https://doi.org/10.1111/geb.70159>*
- Wellmann, T., **Knapp, S.**, Albert, C., Egerer, M., Fischer, L.K., Kaiser, J., Kramer-Schadt, S., Mascarenhas, A., Ristok, C., Sporbert, M., Straka, T.M., Strohbach, M.W., Bleidorn, C., Marx, J.M., Xyländer, W.E.R., Keil, P., Haase, D. (2025) Status and trends of Germany's urban biodiversity: a nationwide assessment and identified knowledge gaps. *Basic and Applied Ecology 89, 37-49. <https://doi.org/10.1016/j.baae.2025.10.002>*
- Felgentreff, E.S., Jakubka, D., **Knapp, S.**, Bernhardt-Römermann, M. (2025) The garden biodiversity index: A self-assessment tool for evaluating biodiversity in private gardens. *Landscape and Urban Planning 263, 105449. <https://doi.org/10.1016/j.landurbplan.2025.105449>*
- 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-Gradow, 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., Géron, 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., Tonietto 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., Tonietto 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., Pyšek, 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
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#### BOOKS, BOOK-CHAPTERS, REPORTS, AND MORE

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Bruehlheide, H., Farwig, N., Marx, J. M., Settele, J. (Hrsg.) Faktencheck Artenvielfalt. Bestandsaufnahme und Perspektiven für den Erhalt der biologischen Vielfalt in Deutschland. oekom science, München. ISBN: 978-3-98726-095-7, E-ISBN: 978-3-98726-336-1, <https://doi.org/10.14512/9783987263361>

**Knapp, S.**, Zipperer, W. (2023) Patterns and drivers of plant biodiversity in urban and urbanizing landscapes. In: Nilo, C.H., Aronson, M.F.J. (Eds.) Routledge Handbook of Urban Biodiversity. Taylor & Francis Group, London and New York. pp. 205-218.

Yang, J., **Knapp, S.**, Zipperer, W. (2023) Managing vegetation for urban biodiversity. In: Nilon, C.H., Aronson, M.F.J. (Eds.) Routledge Handbook of Urban Biodiversity. Taylor & Francis Group, London and New York. pp. 320-332.

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Moeller, L., **Knapp, S.**, Schmauck, S., Otto, P., Schlosser, D., Wick, L.Y., Georgi, A., Friesen, J., Ueberham, M., Trabitzsch, R., Wollschläger, N., Schlink, U., Hofmann, D., Müller, R.A., Mackenzie, K. (2023) Gründächer im urbanen Raum und ihre Ökosystemleistungen. In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.) Die Resiliente Stadt - Konzepte, Konflikte, Lösungen. Springer Spektrum, Berlin. S. 165-180. ISBN 978-3-662-66915-0, ISBN 978-3-662-66916-7 (eBook), <https://doi.org/10.1007/978-3-662-66916-7>

**Knapp, S.**, MacIvor, J.S. (2023) Nature-based solutions and biodiversity: synergies, trade-offs, and ways forward. In: McPhearson, T., Kabisch, N., Frantzeskaki, N. (Eds.): Nature-Based Solutions for Cities. Edgar Elgar Publishing, Cheltenham, Northampton. ISBN 978 1 80037 675 5 (cased), ISBN 978 1 80037 676 2 (eBook). <http://dx.doi.org/10.4337/9781800376762>. pp. 83-103.

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**Knapp, S.**, Klotz, S., Fachbereich Umwelt der Stadt Halle (Eds.) (2020) Geschützte Natur in Halle (Saale). Eine Bestandsaufnahme der Tier- und Pflanzenwelt. Natur + Text, Rangsdorf. 448 Seiten. ISBN 978-3-942062-43-5

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**Knapp, S.** (2019) The Link Between Diversity, Ecosystem Functions, and Ecosystem Services. In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C.: Atlas of Ecosystem Services. Drivers, Risks, and Societal Responses. pp. 13-15. Springer, Cham

**Knapp, S.**, Jaganmohan, M., Schwarz, N. (2019) Climate Regulation by Diverse Urban Green Spaces: Risks and Opportunities Related to Climate and Land Use Change. In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C.: Atlas of Ecosystem Services. Drivers, Risks, and Societal Responses. pp. 167-172. Springer, Cham

**Knapp, S.**, Winter, M., Zehnsdorf, A., Kühn, I. (2019) How Good Are Bad Species? In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C.: Atlas of Ecosystem Services. Drivers, Risks, and Societal Responses. pp. 215-223. Springer, Cham

**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.**, Haase, D., Klotz, S., Schwarz, N. (2018) Do Urban Biodiversity and Urban Ecosystem Services Go Hand in Hand, or Do We Just Hope It Is That Easy? In: 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 Future City 10, Springer International Publishing AG, pp. 301 - 312

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**Knapp, S.**, Klotz, S. (2017) Stadtnatur. In: Marx, A. (Ed.), Klimaanpassung in Forschung und Politik. Springer Spektrum, Wiesbaden, pp. 215-236.

**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

**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.** (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 150<sup>th</sup> Anniversary of the Ecology Concept" of the European Ecological Federation, Leipzig, 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 Arnshausen, 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. & 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.,** 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
- 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., 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