CURRICULUM VITAE

Dr. Sonja Knapp

Helmholtz Centre for Environmental Research – UFZ
Department Community Ecology
Theodor-Lieser-Str. 4, 06120 Halle (Saale), Germany
+49 (0)341 – 60254308
sonja.knapp@ufz.de

Born December 7, 1980, Tübingen, Germany
Nationality: German

Halle (Saale), 2026/03/04

Dr. 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 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)

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)

(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)

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. 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)

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)"

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
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. 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

Dr. Sonja Knapp

LIST OF PUBLICATIONS, SONJA KNAPP

AVERAGE CITATIONS PER ARTICLE 90.15; H-INDEX = 30 (WEB OF SCIENCE, 2026/03/04)

PEER-REVIEWED

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-Grapow, L., **Knapp, S.**, Kühn, I., Lacerda de Matos, A.C., Lososová, Z., Li, D., Montaño-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., Xylander, 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-Grapow, L., **Knapp, S.**, Kühn, I., Lacerda de Matos, A.C., Lososová, Z., Montaño-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., Threfall, 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., Jeliazkov, 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., Jeliazkov, 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

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BOOKS, BOOK-CHAPTERS, REPORTS, AND MORE

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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

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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. (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 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, AJ, 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., 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

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