

# CURRICULUM VITAE



## **Dr. Matthias Schröter**

Postdoctoral researcher, Environmental scientist

UFZ – Helmholtz Centre for Environmental Research  
Department of Computational Landscape Ecology

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### **Research interests**

- Ecological-economic analysis and spatial modelling of ecosystem services
- Interfaces of landscape ecology, geographic information sciences, ecological economics and environmental ethics
- Policy relevant research for sustainability, work at the science-policy interface

## WORK EXPERIENCE

- Postdoctoral researcher**  
*since 11/2017*
- Department of Computational Landscape Ecology at UFZ – Helmholtz Centre for Environmental Research
- Coproduction of ecosystem services
  - Analysis of interregional flows of ecosystem services and telecoupling
  - Spatial modelling and assessment of biodiversity and ecosystem services, spatial priority setting
- Postdoctoral researcher**  
*01/2015 – 10/2017*
- Research group Ecosystem Services at UFZ – Helmholtz Centre for Environmental Research and German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig
- Analysis of interregional flows of ecosystem services and telecoupling
  - Spatial modelling and assessment of biodiversity and ecosystem services, spatial priority setting
  - Conceptual development of the ecosystem service concept
  - Assessment of the science-policy interface on biodiversity and ecosystem services
  - Lead author IPBES Regional Assessment Europe and Central Asia
- Research associate and PhD candidate**  
*03/2011 – 06/2015*
- Environmental Systems Analysis Group, Wageningen University, The Netherlands. Promoters: Prof. Dr. Rik Leemans, Prof. Dr. Lars Hein.
- PhD title: „Conceptual basis and spatial modelling to account for and conserve multiple ecosystem services in Telemark County, Norway”
- Spatial biophysical models for capacity and flow of nine ecosystem services in the context of ecosystem accounting
  - Critical discourse on ecosystem services
  - Spatial models for priority setting for multiple ecosystem services and biodiversity
  - Supervision of M.Sc. theses and student essay writing
  - Research stay (8 months) at the Norwegian Institute for Nature Research (NINA), Oslo
- Research associate**  
*05/2010 – 03/2011*
- Institute of Ecology, Leuphana University of Lüneburg, Germany.
- Research in the project „Biodiversity and Ecosystem Functioning (BEF) China“: Assessment of feasibility of tree-measuring with laser scanning in China
  - Lecturer for undergraduates in a course on ecological perspectives on sustainability
- Intern**  
*08/2008 – 10/2008*
- UFZ – Helmholtz-Centre for Environmental Research, Leipzig, Germany: Project on Remote sensing of bush encroachment on commercial cattle farms in Namibia.
- Remote sensing of bush encroachment
- Research assistant**  
*11/2005 – 02/2010*
- Centre for Sustainability Management, Sustainability Economics Group and Institute of Ecology at Leuphana University of Lüneburg.
- Trainee**  
*09/2001 – 09/2004*
- Dresdner Bank, Dessau and Leipzig, Germany.

## EDUCATION

<b>Environmental Sciences</b> (diploma, equivalent to M.Sc.) 10/2004 – 04/2010	Leuphana University of Lüneburg, Germany <ul style="list-style-type: none"><li>• Specialisation in forest and landscape ecology, environmental and ecological economics, environmental ethics</li><li>• 7 months study and intern stay at Mälardalen University, Västerås, Sweden.</li></ul>
<b>Business administration</b> (diploma) 09/2001– 09/2004	University of Co-operative Education, Leipzig, Germany. <ul style="list-style-type: none"><li>• Business administration, specialisation in banking, economics</li></ul>

## SCIENTIFIC POSITIONS

<b>Lead Author IPBES</b> 08/2015 – 03/2018	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, Regional Assessment for Europe and Central Asia, Chapter 2. <ul style="list-style-type: none"><li>• Responsible for cultural ecosystem services, inter-regional flows of ecosystem services, justice aspects of ecosystem services</li></ul>
<b>Associate Editor &amp; Managing Editor</b> since 10/2016 03/2014 – 12/2017	<i>Ecosystems and People (formerly: International Journal of Biodiversity Science, Ecosystem Services &amp; Management)</i> <ul style="list-style-type: none"><li>• Academic editing of manuscripts and strategic advice</li><li>• Responsible for manuscript handling, publication trajectory and recommendations for decisions</li></ul>
<b>Associate Editor</b>	<i>PLOS One (since 01/2019)</i> <i>One Ecosystem - Ecology and Sustainability Data Journal (since 01/2016)</i>
<b>Guest Editor</b>	Special Issue in <i>Ecosystem Services</i> : Global flows of ecosystem services (2018, with Thomas Koellner, Catharina J.E. Schulp and Peter Verburg)
<b>Working group co-leader</b> since 12/2015	Thematic working groups on “Ecosystem Service Indicators” and on “Global Ecosystem Service Flows” of the Ecosystem Services Partnership (ESP)
<b>Scientific Advisory Board Member</b> 2016 - 2018	Experimental Urban Ecosystem Accounting (URBAN-EEA), Norway
<b>Member Scientific and Technical Council</b> since 2019	Elected member of the Scientific and Technical Council of the Helmholtz Centre for Environmental Research – UFZ, Lead working group Good Scientific Practice
<b>Reviewer</b> since 2012	<i>Ecological Indicators, Ecosystem Services, Methods in Ecology and Evolution, Environmental Science &amp; Policy, Ecological Economics, Ecosystems and People, Environmental Modelling and Software, Regional Environmental Change, Ambio, Sustainability Science, PLOS One, PeerJ, Journal of Applied Ecology, Ecosystems.</i> Full reviewer profile: <a href="https://publons.com/author/395251">https://publons.com/author/395251</a> IPBES Global Assessment
<b>Project Reviews</b>	Icelandic Research Fund, Austrian Academy of Sciences, sDiv
<b>PhD examination committees</b>	University of Queensland (Australia), University of Oulu (Finland)

## SCHOLARSHIPS AND GRANTS

<b>Klaus Tschira Boost Fund</b> 2019/2020	Grant for “BIOSHARE” project on coproduction of ecosystem services in biosphere reserves [€ 80.000]
<b>sDiv – Synthesis Centre of iDiv</b> 2016/2017	Grant for working group “sTeleBES” [€ 30.000]
<b>Research Council of Norway</b> 2012/2013	Yggdrasil scholarship for two research stays at Norwegian Institute for Nature Research NINA, Oslo (8 months) [€ 14.000]
<b>LEB fund at Wageningen University</b> 2014	Travel grant for conference talk at the 7 <sup>th</sup> ESP conference, San José, Costa Rica, 2014 [€ 800]
<b>Heinrich Böll Foundation</b> 2007-2010	Scholarship for the studies in environmental sciences.

## PROFESSIONAL MEMBERSHIPS

- Ecosystem Services Partnership (ESP), since 2014
- Innovationsnetzwerk Ökosystemleistungen Deutschland (ESP-DE), since 2015
- GEOBON Working group Ecosystem Services, since 2016
- Global Land Programme (GLP), since 2019

## PUBLICATIONS AND RESEARCH INTERESTS

(Updated September 2020; all publications on Google Scholar: <http://goo.gl/1W0rKW>)  
Web of Science h-index: 17; citations: 1407

### Main research interests (respective numbered publications below)

- Ecosystem service assessments:
  - Spatial modelling and accounting (3, 5, 7, 9, 31, 33, 0-6, 0-8, 0-13)
  - Synthesis of assessment approaches (13, 14, 15, 20, 21, 22, 23, 32, 35)
  - Indicators (5, 25, 32)
  - Valuation (8, 14, 32, SP-1)
  - Interregional ecosystem service flows (24, 29, 31, 33, SP-1)
- Spatial conservation prioritisation (6, 10, 11, 18, 19)
- Theoretical-conceptual development of ecosystem services (4, 5, 12, 14, 16, 0-12, 26, 30, 35)
- Science-policy interface of biodiversity and ecosystem services (13, 17, 32, SP-1)
- Editorial work on biodiversity and ecosystem services (0-3, 0-4, 0-5, 0-7, 0-9, 0-10, 0-11, 0-14, 0-15, B-2)

### Peer reviewed, international journal articles (\* listed in Web of Science)

#### 2020

35. **Schröter, M.**, E. Crouzat, L. Hölting, J. Massenberg, J. Rode, M. Hanisch, N. Kabisch, J. Palliwoda, J.A. Priess, R. Seppelt, M. Beckmann. 2020. Assumptions in ecosystem service assessments: Increasing transparency for conservation. *Ambio*.\*
34. Dornelles, A.Z., E. Boyd, R.J. Nunes, M. Asquith, W.J. Boonstra, I. Delabre, J.M. Denney, V. Grimm, A. Jentsch, K.A. Nicholas, **M. Schröter**, R. Seppelt, J. Settele, N. Shackelford, R.J. Standish, G.T. Yengoh, T.H. Oliver. 2020. Towards a bridging concept for undesirable resilience in social-ecological systems. *Global Sustainability* 3: e20.
33. Kleemann, J., **M. Schröter**, K. Bagstad, C. Kuhlicke, T. Kastner, D. Fridman, C.J.E. Schulp, S. Wolff, J. Martinez Lopez, T. Koellner, S. Arnhold, B. Martin-Lopez, A. Marques, L. Lopez-Hoffman, J. Liu, M. Kissinger, C. Guerra, A. Bonn. in press. Quantifying interregional flows of multiple ecosystem services – a case study for Germany. *Global Environmental Change*.\*

32. **Schröter, M.**, E. Başak, M. Christie, A. Church, H. Keune, E. Osipova, E. Oteros-Rozas, S. Sievers-Glotzbach, A.P.E. van Oudenhoven, P. Balvanera, D. González, S. Jacobs, Z. Molnár, U. Pascual, B. Martín-López. 2020. Indicators for relational values of nature's contributions to good quality of life: the IPBES approach for Europe and Central Asia. *Ecosystems and People* 16: 50-69.
31. **Schröter, M.**, R. Kraemer, R. P. Remme, and A. P. E. van Oudenhoven. 2020. Distant regions underpin interregional flows of cultural ecosystem services provided by birds and mammals. *Ambio* 49: 1100-1113.\*

## 2019

30. Wiederkehr, C., **M. Schröter**, H. Adams, R. Seppelt, K. Hermans. 2019. How does nature contribute to human mobility? A conceptual framework and qualitative analysis. *Ecology and Society* 24(4):31.\*
29. Koellner, T., A. Bonn, S. Arnhold, K. J. Bagstad, D. Fridman, C. A. Guerra, T. Kastner, M. Kissinger, J. Kleemann, C. Kuhlicke, J. Liu, L. López-Hoffman, A. Marques, B. Martín-López, C. J. E. Schulp, S. Wolff, and **M. Schröter**. 2019. Guidance for assessing interregional ecosystem service flows. *Ecological Indicators* 105, 92-106.\*
28. Whitehorn, P.R., L.M. Navarro, **M. Schröter**, M. Fernandez, X. Rotllan-Puig, A. Marques, 2019. Mainstreaming biodiversity: A review of national strategies. *Biological Conservation* 235, 157-163.\*
27. Strunz, S., M. Marselle, **M. Schröter**, 2019. Leaving the “sustainability or collapse” narrative behind. *Sustainability Science* 14, 1717-1728.\*
26. Ainscough, J., A. de Vries Lentsch, M. Metzger, M. Rounsevell, **M. Schröter**, B. Delbaere, R. de Groot, J. Staes, 2019. Navigating pluralism: Understanding perceptions of the ecosystem services concept. *Ecosystem Services* 36, 100892.\*

## 2018

25. van Oudenhoven, A.P.E., **M. Schröter**, E.G. Drakou, I.R. Geijzendorffer, S. Jacobs, P.M. van Bodegom, L. Chazee, B. Czócz, K. Grunewald, A.I. Lillebø, L. Mononen, A.J.A. Nogueira, M. Pacheco-Romero, C. Perennou, R.P. Remme, S. Rova, R. Syrbe, J.A. Tratalos, M. Vallejos, C. Albert, 2018. Key criteria for developing ecosystem service indicators to inform decision making. *Ecological Indicators* 95P1, 417-426.\*
24. **Schröter, M.**, T. Koellner, R. Alkemade, S. Arnhold, K.J. Bagstad, K. Frank, K. Erb, T. Kastner, M. Kissinger, J. Liu, L. López-Hoffman, J. Maes, A. Marques, B. Martín-López, C. Meyer, C.J.E. Schulp, J. Thober, S. Wolff, A. Bonn, 2018. Interregional flows of ecosystem services: concepts, typology and four cases. *Ecosystem Services* 31, 231-241.\*
23. Díaz, S., U. Pascual, M. Stenseke, B. Martín-López, R.T. Watson, Z. Molnár, R. Hill, K.M.A. Chan, I.A. Baste, K.A. Brauman, S. Polasky, A. Church, M. Lonsdale, A. Larigauderie, P.W. Leadley, A.P.E. van Oudenhoven, F. van der Plaats, **M. Schröter**, S. Lavorel, Y. Aumeeruddy-Thomas, E. Bukvareva, K. Davies, S. Demissew, G. Erpul, P. Failler, C.A. Guerra, C.L. Hewitt, H. Keune, S. Lindley, Y. Shirayama, 2018. Assessing nature's contributions to people. *Science* 359, 270-272.\*
22. Rieb, J.T., R. Chaplin-Kramer, G.C. Daily, P.R. Armsworth, K. Böhning-Gaese, A. Bonn, G.S. Cumming, F. Eigenbrod, V. Grimm, B.M. Jackson, A. Marques, S.K. Pattanayak, H.M. Pereira, G.D. Peterson, T.H. Ricketts, B.E. Robinson, **M. Schröter**, L.A. Schulte, R. Seppelt, M.G. Turner, E.M. Bennett, 2018. Response to Kabisch and Colleagues. *Bioscience* 68(3), 167-168.\*

## 2017

21. **Schröter, M.**, R. Kraemer, M. Mantel, N. Kabisch, S. Hecker, A. Richter, V. Neumeier, A. Bonn, 2017. Citizen science for assessing ecosystem services: Status, challenges and opportunities. *Ecosystem Services* 28, Part A, 80-94.\*
20. Rieb, J.T., R. Chaplin-Kramer, G.C. Daily, P.R. Armsworth, K. Böhning-Gaese, A. Bonn, G.S. Cumming, F. Eigenbrod, V. Grimm, B.M. Jackson, A. Marques, S.K. Pattanayak, H.M. Pereira, G.D. Peterson, T.H. Ricketts, B.E. Robinson, **M. Schröter**, L.A. Schulte, R. Seppelt, M.G. Turner and E.M. Bennett, 2017. When, where, and how nature matters for ecosystem services: Challenges for the next generation of ecosystem service models. *Bioscience* 67, 820-833.\*
19. **Schröter, M.**, R. Kraemer, S. Ceaușu and G.M. Rusch, 2017. Incorporating threat in hotspots and coldspots of biodiversity and ecosystem services *Ambio* 46, 756-768.\*

18. Tobón, W., T. Urquiza-Haas, P. Koleff, **M. Schröter**, R. Ortega-Álvarez, J. Campo, R. Lindig Cisneros, J. Sarukhán, et al., 2017. Restoration planning to guide Aichi targets in a megadiverse country. *Conservation Biology* 31, 1086-1097.\*
17. Albert, C., C. Neßhöver, **M. Schröter**, H. Wittmer, A. Bonn, B. Burkhard, J. Dauber, R. Döring, et al., 2017. Towards a National Ecosystem Assessment in Germany: A Plea for a Comprehensive Approach. *GAIA - Ecological Perspectives for Science and Society* 26, 27-33.\*
16. **Schröter, M.**, K.H. Stumpf, J. Loos, A.P.E. van Oudenhoven, A. Böhnke-Henrichs and D.J. Abson, 2017. Refocusing ecosystem services towards sustainability. *Ecosystem Services* 25, 35-43.\*
15. Dee, L.E., S. Allesina, A. Bonn, A. Eklöf, S.D. Gaines, J. Hines, U. Jacob, E. McDonald-Madden, H. Possingham, **M. Schröter** and R.M. Thompson, 2017. Operationalizing Network Theory for Ecosystem Service Assessments. *Trends in Ecology & Evolution* 32, 118-130.\*
14. Vaz, A.S., C. Kueffer, C.A. Kull, D.M. Richardson, J.R. Vicente, I. Kühn, **M. Schröter**, J. Hauck, A. Bonn and J.P. Honrado, 2017. Integrating ecosystem services and disservices: insights from plant invasions. *Ecosystem Services* 23, 94-107.\*

## 2016

13. **Schröter, M.**, C. Albert, A. Marques, W. Tobon, S. Lavorel, J. Maes, C. Brown, S. Klotz and A. Bonn, 2016. National Ecosystem Assessments in Europe: A Review. *Bioscience* 66, 813-828.\*
12. **Schröter, M.** and A.P.E. van Oudenhoven, 2016. Ecosystem Services Go Beyond Money and Markets: Reply to Silvertown. *Trends in Ecology & Evolution* 31, 333-334.\*
11. Remme, R.P. and **M. Schröter**, 2016. Effects of budget constraints on conservation network design for biodiversity and ecosystem services. *Ecological Complexity* 26, 45-56.\*
10. **Schröter, M.** and R.P. Remme, 2016. Spatial prioritisation for conserving ecosystem services: comparing hotspots with heuristic optimisation. *Landscape Ecology* 31, 431-450.\*

## 2015

9. **Schröter, M.**, R.P. Remme, E. Sumarga, D.N. Barton and L. Hein, 2015. Lessons learned for spatial modelling of ecosystem services in support of ecosystem accounting. *Ecosystem Services* 13, 64-69.\*
8. Remme, R.P., B. Edens, **M. Schröter** and L. Hein, 2015. Monetary accounting of ecosystem services: A test case for Limburg province, the Netherlands. *Ecological Economics* 112, 116-128.\*

## 2014

7. Remme, R.P., **M. Schröter** and L. Hein, 2014. Developing spatial biophysical accounting for multiple ecosystem services. *Ecosystem Services* 10, 6-18.\*
6. **Schröter, M.**, G.M. Rusch, D.N. Barton, S. Blumentrath and B. Nordén, 2014. Ecosystem Services and Opportunity Costs Shift Spatial Priorities for Conserving Forest Biodiversity. *PloS One* 9, e112557.\*
5. **Schröter, M.**, D.N. Barton, R.P. Remme and L. Hein, 2014. Accounting for capacity and flow of ecosystem services: A conceptual model and a case study for Telemark, Norway. *Ecological Indicators* 36, 539-551.\*
4. **Schröter, M.**, E.H. van der Zanden, A.P.E. van Oudenhoven, R.P. Remme, H.M. Serna-Chavez, R.S. de Groot and P. Opdam, 2014. Ecosystem services as a contested concept: a synthesis of critique and counter-arguments. *Conservation Letters* 7, 514-523.\*

## 2012

3. **Schröter, M.**, R.P. Remme and L. Hein, 2012. How and where to map supply and demand of ecosystem services for policy-relevant outcomes? *Ecological Indicators* 23, 220-221.\*
2. **Schröter, M.**, W. Härdtle and G. von Oheimb, 2012. Crown plasticity and neighborhood interactions of European beech (*Fagus sylvatica* L.) in an old-growth forest. *European Journal of Forest Research* 131, 787-798.\*
1. Lang, A., W. Härdtle, H. Bruelheide, W. Kröber, **M. Schröter**, H. von Wehrden and G. von Oheimb, 2012. Horizontal, but not vertical canopy structure is related to stand functional diversity in a subtropical slope forest. *Ecological Research* 27, 181-189.\*

## Science-policy reports

- SP-1. Martín-López, B., Church, A., Başak Dessane, E., Berry, P., Chenu, C., Christie, M., Gerino, M., Keune, H., Osipova, E., Oteros-Rozas, E., Paillard, S., Rossberg, A. G., **Schröter, M.** and van Oudenhoven,

A. P. E., 2018. Chapter 2: Nature's contributions to people and quality of life. In IPBES (2018): The IPBES regional assessment report on biodiversity and ecosystem services for Europe and Central Asia. Rounsevell, M., Fischer, M., Torre-Marín Rando, A. and Mader, A. (eds.). Secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, Bonn, Germany, pp. 57-185.

### **Other publications: Peer-reviewed book chapters, working papers and non-peer reviewed journal articles**

- O-15. **Schröter, M.**, A. Bonn, S. Klotz, R. Seppelt, C. Baessler, 2019. Ecosystem Services: Understanding Drivers, Opportunities, and Risks to Move Towards Sustainable Land Management and Governance, in: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (Eds.), *Atlas of Ecosystem Services: Drivers, Risks, and Societal Responses*. Springer, New York, pp. 401-403.
- O-14. **Schröter, M.**, 2019. Introduction to Part IV: Societal Responses, in: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (Eds.), *Atlas of Ecosystem Services: Drivers, Risks, and Societal Responses*. Springer, New York, pp. 311-313.
- O-13. Cord, A.F., N. Schwarz, R. Seppelt, M. Volk, **M. Schröter**, 2019. Introduction to Part III: Trade-offs and synergies among ecosystem services, in: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (Eds.), *Atlas of Ecosystem Services: Drivers, Risks, and Societal Responses*. Springer, New York, pp. 245-249.
- O-12. **Schröter, M.**, I. Ring, C. Schröter-Schlaack, A. Bonn, 2019. The ecosystem service concept: linking ecosystems and human wellbeing, in: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (Eds.), *Atlas of Ecosystem Services: Drivers, Risks, and Societal Responses*. Springer, New York, pp. 7-11.
- O-11. **Schröter, M.**, C. Kuhlicke, J. Förster, C. Baessler, A. Bonn, in press. The risk to ecosystems and ecosystem services: a framework for the Ecosystem Service Atlas, in: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (Eds.), *Atlas of Ecosystem Services: Drivers, Risks, and Societal Responses*. Springer, New York, pp. 3-6.
- O-10. Koellner, T., **M. Schröter**, C.J.E. Schulp, P.H. Verburg, 2018. Global flows of ecosystem services. *Ecosystem Services* 31B, 229-230.
- O-9. van Oudenhoven, A.P.E., B. Martín-López, **M. Schröter**, R. de Groot, 2018. Advancing science on the multiple connections between biodiversity, ecosystems and people. *International Journal of Biodiversity Science, Ecosystem Services & Management* 14, 127-131.
- O-8. Syrbe, R.-U., **M. Schröter**, K. Grunewald, U. Walz and B. Burkhard, 2017. What to map?, in: Burkhard, B., Maes, J. (Eds.), *Mapping Ecosystem Services*. Pensoft Publishers, Sofia, pp. 151-158.
- O-7. van Oudenhoven, A.P.E., **M. Schröter** and R. de Groot, 2016. Open access to science on ecosystem services and biodiversity. *International Journal of Biodiversity Science, Ecosystem Services & Management* 12, 1-3.
- O-6. Hein, L., B. Edens, C. Obst, R.P. Remme, **M. Schröter** and E. Sumarga, 2016. An introduction to ecosystem accounting, in: Potschin, M., Haines-Young, R., Fish, R., Turner, K. (Eds.), *Routledge Handbook of Ecosystem Services*. Routledge, Oxon and New York, pp. 213-219.
- O-5. van Oudenhoven, A.P.E., **M. Schröter** and R. de Groot, 2016. Linking biodiversity and ecosystem service science to societal actors. *International Journal of Biodiversity Science, Ecosystem Services & Management* 12, 155-159.
- O-4. **Schröter, M.**, A.P.E. van Oudenhoven and R. de Groot, 2015. The management relevance of biodiversity science: recommendations for conservation. *International Journal of Biodiversity Science, Ecosystem Services & Management* 11, 283-285.
- O-3. van Oudenhoven, A.P.E., **M. Schröter** and R. de Groot, 2015. Editorial. *International Journal of Biodiversity Science, Ecosystem Services & Management* 11, 85-88.
- O-2. **Schröter, M.**, O. Jakoby, R. Olbrich, M. Eichhorn and S. Baumgärtner, 2010. Remote Sensing of Bush Encroachment on Commercial Cattle Farms in Semi-Arid Rangelands in Namibia, in: Olej, V., Obršálová, I., Krupka, J. (Eds.), *Environmental Modelling for Sustainable Regional Development*. IGI Global, Hershey, PA, pp. 327-343.
- O-1. **Schröter, M.**, M. Groth and S. Baumgärtner, 2010. Pigous Beitrag zur Nachhaltigkeitsökonomie. University of Lüneburg Working Paper Series in Economics, No. 180.

## Books

- B-2. **Schröter, M.**, A. Bonn, S. Klotz, R. Seppelt, C. Baessler (eds., 2019): Atlas of Ecosystem Services: Drivers, Risks, and Societal Responses. *Springer*, New York.
- B-1. **Schröter, M.**, 2015. Conceptual basis and spatial modelling to account for and conserve multiple ecosystem services in Telemark County, Norway. PhD Thesis.

## SCIENTIFIC CONFERENCES AND WORKSHOPS

- 2019 10<sup>th</sup> Ecosystem Services Partnership conference**, Hanover, Germany, 21-25 October 2019
- Oral presentation: “Coproduction of agricultural crops: distinguishing anthropogenic and natural effects on global yields”
- Session lead “Science meeting reality: developing fit-for-purpose ecosystem services indicators” (with a.o. Alexander van Oudenhoven) and “Telecoupling through flows of ecosystem services from regional to global scales” (with a.o. Thomas Koellner, Catharina J.E. Schulp, María Felipe-Lucia)
- 2019 Global Land Project 4<sup>th</sup> Open Science Meeting** Bern, Switzerland, 24-26 April 2019
- Oral presentation: “Distant poor and threatened regions underpin interregional flows of cultural ecosystem services”
- 2018 sDiv Workshop sOcioLock-in** by Emily Boyd and Tom Oliver, Leipzig, Germany, 6/2018. Workshop participant
- 2<sup>nd</sup> European Ecosystem Services Partnership conference** San Sebastian, Spain, 15-19 October 2018
- Session lead “Telecoupling through global and interregional flows of ecosystem services” (with Catharina J.E. Schulp and Thomas Koellner) and “Ecosystem service indicators to assess social-ecological systems” (with Alexander van Oudenhoven, Christian Albert and Evangelia Drakou)
- Oral presentation: “Distant biodiversity underpins interregional flows of cultural ecosystem services”
- 2017 Global IPBES Expert Workshop on Values and Indicators (invited)** Budapest, Hungary, 4/2017
- Oral presentation: “Multiple values in the IPBES Europe and Central Asia Regional Assessment”
- “sTeleBES – Telecoupled use of biodiversity and ecosystem services” expert workshop** Workshop 2 and group lead
- 2016 “sTeleBES – Telecoupled use of biodiversity and ecosystem services” expert workshop** Workshop 1 and group lead
- 1<sup>st</sup> European Ecosystem Services Partnership conference** Antwerp, Belgium, 9/2016. Session lead “Reflections on the last decade of ecosystem service research: Rights, wrongs, and the way forward” (with Alexander van Oudenhoven, Sander Jacobs and Erik Gomez-Baggethun), “Global ecosystem service flows” (with Thomas Koellner, Catharina J.E. Schulp and Peter Verburg), “Ecosystem service indicators: what you measure is what you get?” (with Alexander van Oudenhoven, Christian Albert and Evangelia Drakou). Oral presentations: “Refocusing ecosystem services towards sustainability” & “National Ecosystem Assessments in Europe: a review.”
- GEObON Open Science Conference & All-hands meeting**, Leipzig, Germany, 7/2016. Session and workshop lead: “Using Earth observation and geospatial data to map and model ecosystem services” (with Anna Cord)
- iDiv Annual Conference 2015**, Leipzig, Germany, 12/2016. Oral presentation: “Strengthening conceptual links between ecosystem services and sustainability”



**IALE-D Annual meeting**, Bonn, Germany 10/2016. Poster presentation: "Incorporating threat in joint hotspots of biodiversity and ecosystem services"

**MAES-DE+2015: Expert workshop**, Bonn, Germany 10/2016. Invited oral presentation: "Review of (sub-)national ecosystem assessments: objectives, framing, concepts and methods"

**2015 45th Annual Meeting of the Ecological Society of Germany, Austria and Switzerland (GfÖ)**, Göttingen, Germany, 9/2015. Oral presentation: „Review of (sub-)national ecosystem assessments: objectives, concepts, methods, and governance“

**sDiv Workshop sESMOD** by Gretchen Daily and Elena Bennett, Leipzig, Germany, 4/2015. Workshop participant

**sDiv workshop sERVICES** by Laura Dee and Steven Gaines, Leipzig, Germany, 3/2015. Workshop participant

**2014 Ecosystem Service Partnership conference**, San José, Costa Rica, 8/2014. Oral presentations: "Lessons learned for best practice of spatial modelling for ecosystem accounting" & „Site prioritisation for conservation of multiple ecosystem services: hotspots vs. heuristic optimisation with Marxan“

**Global Land Project Open Science Meeting**, Humboldt University Berlin, Germany, 3/2014. Oral presentation: „Site prioritisation for conservation of multiple ecosystem services: hotspots vs. heuristic optimisation with MARXAN“

**POLICYMIX Conference**, UFZ, Leipzig, Germany, 2/2014. Oral presentation: "How does the protection of ecosystem services influence spatial conservation prioritization within a policyscape?"

**2013 Joint Workshop Indication, Integration and Application of Ecosystem Services in Decision Making, IALE – D, ESP**, Kiel, Germany, 5/2013. Oral presentation: "Capacity, flow and values of ecosystem services: finding ways for representation in the cascade model"

## TEACHING EXPERIENCE

2019 **Leuphana University of Lüneburg**, Germany, seminar series "Biodiversity and ecosystem services in a changing world" (invited talk): "Interregional flows and telecoupling of ecosystem services"

2018 **Martin-Luther University Halle**, Germany, seminar series in Geography (invited talk): "Ecosystem services – a useful concept for analysing telecouplings?"

2016 **University of Zurich**, Switzerland, course facilitator "Ecosystem Services Workshop" on spatial modelling of ecosystem services

2015 **iDiv/UFZ HIGRADE graduate school, Leipzig**, Germany. Course "Science Policy Interface" (PhD level)

**iDiv summer school "Biodiversity Synthesis"**, Leipzig, Germany: Talk "Are ecosystem services a useful approach for biodiversity conservation?" and group discussion lead (PhD, M.Sc. level)

2014-2015 **Wageningen University, Wageningen**, The Netherlands, Student essay writing supervision in the Seminar "Interdisciplinarity in Scientific Research and Education" (M.Sc. level)

2010-2011 **Leuphana University of Lüneburg**, Lüneburg, Germany, Course "Nachhaltigkeit: ökologische Perspektiven (Sustainability: ecological perspectives)" (B.Sc./B.A. level)

## SUPERVISION

2019 M.Sc. thesis supervision Julia Fischer at UFZ: "Spatial quantification of interregional ecosystem services flows: natural pest control in European agriculture provided by migratory bird species"

Internship Franziska Henck at UFZ: "Pest control of migrating bird species in Germany"

Internship Johanna Klapper at UFZ: "Interregional flows of multiple ecosystem services through trade of endangered species"

2016 B.Sc. thesis and internship Arne Pinnschmidt at UFZ/iDiv: "Zeitliche Veränderungen der Wahrnehmung von Ökosystemleistungen und Management von Ökosystemen: Fallstudie einer Wechselbeziehung"

Internship Katja Beisheim at UFZ/iDiv: "Analysis of Inter-Regional Ecosystem Service Flows – Linking the Telecoupling Framework to the Ecosystem Service Concept"

2015- A. v. Humboldt scholarship supervision Wolke Tobon at UFZ/iDiv: "Systematic restoration  
2016 planning for priority site selection as guidance for Aichi targets in Mexico"

2014 M.Sc. thesis supervision Jie Zhao at Wageningen University: "Spatial biodiversity models for data scarce environments: exploring different methods for Telemark County, Norway"

M.Sc. thesis co-supervision Sandra Wolters at Wageningen University: "Spatial models of biodiversity: testing GLOBIO for the province of Limburg, the Netherlands"

## PUBLIC OUTREACH

2019 **Leipziger Internet-Zeitung:** „Deutschland nutzt auch Ökosysteme in weit entfernten, oftmals ärmeren Regionen“, 5 December 2019 on Schröter et al. 2019 (Ambio). Also on: juraforum.de, lifepr.de.

**Phys.org, EurekAlert!, Natural Capital Project (Stanford University):** "The wellbeing connection", on Schröter et al. 2019 (Ambio).

2018 **Helmholtz.de:** "Forschung für Vielfalt" by Benjamin Haerdle - Report and quote on IPBES Regional Assessment for Europe and Central Asia.

**WDR5 Leonardo – Wissenschaft und mehr:** "Biodiversitätsrat" - Report and quote on IPBES Regional Assessment for Europe and Central Asia.

**Biodiversity.de (Netzwerkforum zur Biodiversitätsforschung in Deutschland)** (Interview) 23 March 2018, by Sebastian Tilch: „Wir brauchen derzeit unser Naturkapital auf, dabei sollten wir von den Zinsen leben“

**Bayern 2** (Radio interview) - IQ - Wissenschaft und Forschung Magazin – 23 March 2018, 18:05, by Miriam Stumpfe: „Bedrohte Artenvielfalt Welt-Biodiversitätsrat präsentiert alarmierende Fakten.“

**B5 aktuell** (Radio interview) – Aus Wissenschaft und Technik – 25 March 2018, 13:35, by Ingeborg Hain: „Bedrohte Artenvielfalt Welt-Biodiversitätsrat mit alarmierenden Zahlen.“

**The Guardian** („Destruction of nature as dangerous as climate change, scientists warn" 23 March 2018), **National Geographic** ("Life on Earth is Under Assault-But There's Still Hope" 23 March 2018), **Nature** ("Top UN panel paints bleak picture of world's ecosystems", 27 March 2018), **Frankfurter Allgemeine Zeitung** ("Plädoyer gegen die Einfalt", 24 March 2018), **tageszeitung** ("Raubbau ist ein mieses Geschäft", 25 March 2018) and many other media reported on the IPBES report to which I contributed as lead author.

2016 **NDR Info** (Radio interview) - Logo - Das Wissenschaftsmagazin – 27 November 2016 15:05, by Annegret Faber „Mikroorganismen im Boden reinigen Grundwasser“

2015 **NRC next** frontpage: "Vier ton voor de Mookerhei" (4k for the Mooker heathland), featuring Remme et al. 2015, Ecol. Econ.

**Milieu magazine:** "Natuur in harde Euro's" (Nature valued in Euros), featuring Remme et al. 2015, Ecol. Econ.

2014 **New York Times**, 10 June 2014: "The Price Tag on Nature's Defenses", featuring Schröter et al. 2014, Cons. Lett.

**People, Food and Nature Blog** 12 March 2014: "Envisioning Ways forward for the Ecosystem

Services debate”, together with Emma van der Zanden and Alexander van Oudenhoven featuring Schröter et al. 2014, Cons. Lett.

**Science for Environment Policy** (European Commission), issue 362, 20 February 2014: “New ecosystem service accounting method developed and applied on the ground”, featuring Schröter et al. 2014, Ecol. Indic.

## LANGUAGES

German (native), English (proficient, C1), Dutch (proficient, C1), Norwegian (independent, B2), Swedish (independent, B2), French (basic, A1)

## SOFTWARE SKILLS

ArcGIS, R, Marxan, Maxent, Erdas Imagine, SPSS, Endnote, Microsoft Office

## COURSES TAKEN (selection)

- |         |  |
|---------|--|
| 2018/19 | Helmholtz Advance Mentoring Programme  |
| 2017    | Fundamentals of Probability and Statistics using R (en) (M. Wu), UFZ, Leipzig  |
| 2016    | Meta-Analysis in Biology and Environmental Science (J. Gurevitch & J. Koricheva), UFZ, Leipzig<br>Professional Skills for Research Leaders (Epigeum online course) |
| 2015    | How to apply for research funding (Friedrich-Schiller-University of Jena)  |