

Dr. Thomas Daum
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Postdoctoral Researcher
Social and Institutional Change in Agricultural Development
Institute of Agricultural Sciences in the Tropics (Hans-Ruthenberg-Institute)
University of Hohenheim
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Education

University of Hohenheim, Germany Ph.D. Study (Dr. sc. Agr.) on “The potential of smartphone apps to collect self-recorded data in agricultural households. A study on time-use in Zambia” (Grade: magna cum laude)	07/2015 – 12/2019
University of Hohenheim, Germany Agricultural Economics (M.Sc.) (Grade: 1,1)	10/2012 – 01/2015
Cooperative State University Mannheim, Germany Business Administration (B.A.)	10/2009 – 09/2012
University of Technology and Economy, Budapest, Hungary Erasmus Semester	08/2010 – 01/2011
Friedrich-Magnus-Schwerd-Gymnasium, Speyer, Germany Abitur	2009

Work Experience

University of Hohenheim, Germany <i>Postdoctoral Researcher</i> Social and Institutional Change in Agricultural Development Institute of Agricultural Science in the Tropics (Hans-Ruthenberg-Institute)	04/2017 - ongoing
University of Hohenheim, Germany <i>Research Associate</i> Social and Institutional Change in Agricultural Development Institute of Agricultural Science in the Tropics (Hans-Ruthenberg-Institute)	07/2015 – 03/2017
Frankfurter Allgemeine Zeitung (FAZ), Süddeutsche Zeitung, among others <i>Freelance Writer</i>	2005 - ongoing

Gesellschaft für Internationale Zusammenarbeit (GIZ), Eschborn, Germany Internship
Sectorproject Land Policy and Land Management

University of Hohenheim, Germany
Student Assistant

Land Use Economics in the Tropics and Subtropics
Institute of Agricultural Science in the Tropics (Hans-Ruthenberg-Institute)

(John) Deere & Company, Mannheim and Bruchsal, Germany
On-the-job-training corresponding to the studies at the Cooperative State University (DHBW) Mannheim

04/2013 – 04/2014
10/2009 – 09/2012

Research Projects/Grants

Fostering innovations to reduce livestock's long shadow in Africa (Kenya)

Principal investigator and project coordination
Eliteprogramm für Postdoktorandinnen und Postdoktoranden [Postdoctoral Fellowship For Leading Early Career Researchers] der Baden-Württemberg Stiftung

2022 - ongoing

Governance of pesticides (Zambia)

Project coordination and research

Joint project with the Indaba Agricultural Policy Research Institute (IAPRI), Zambia, funded by foundation fiat panis and the PARI project (see below)

2021 - ongoing

Measuring Time Use Well (Malawi)

Research

Joint Project with „Center for Development Data“ (C4D2, Worldbank) and the International Food Policy Research Institute (IFPRI), among others, funded by the International Fund for Agricultural Development (IFAD)

2020 - ongoing

Reaching Smallholder Women with Information Services and Resilience Strategies to Respond to Climate Change (India, Kenya, Uganda)

Research

Joint project with the International Food Policy Research Institute (IFPRI), Self-Employed Women's Association (India), GROOTS (Kenya), and the Ministry of Agriculture, Animal Industry and Fisheries (Uganda), funded by the German Federal Ministry for Economic Cooperation and Development (BMZ)

2019 - ongoing

Climate Adapted Farming Methods (CAFIM) (Zambia)

Coordination of work package

Joint Project with the Zambian–German Agricultural Knowledge and Training Centre (AKTC) and the Southern African Science Service Centre for Climate Change and Adaptive Land Management (SASSCAL), funded by the Federal Ministry of Education and Research (BMBF)

2019 - ongoing

Phytoremediation of Mercury-contaminated Mining Sites in Ghana and Burkina Faso Using Arbuscular Mycorrhizal Fungi (Burkina Faso and Ghana)

Coordination of the work package on socioeconomic aspects

2019 - ongoing

Joint Project with Department "Crop Physiology of Specialty Crops" (University of Hohenheim), Institute of Statistical, Social and Economic Research (ISSER, University of Ghana), and INERA (Burkina Faso), among others, and funded by the Federal Ministry of Education and Research (BMBF)

**Program of Accompanying Research for Agricultural Innovation (PARI)
(12 African countries plus India)**

Project coordination of Hohenheim research, lead of research on the economics and governance of sustainable agricultural mechanization (Benin, Kenya, Mali, Nigeria), skills and research-extension linkages for sustainable agricultural transformation (Benin, Kenya, Mali, Nigeria), digital livestock (India, Kenya), and co-lead of research on sustainable livestock development (Burkina Faso, Kenya, Zambia) and), agrobiodiversity conservation (Benin, Burkina Faso, Kenya, Mali)

Joint project with the Center for Development Research (ZEF), Forum for Agricultural Research in Africa (FARA), and 12 African partners, funded by the German Federal Ministry for Economic Cooperation and Development (BMZ)

Edible weeds and food and nutrition security in the face of the herbicide revolution (Zambia)

Project coordination and research

Joint project with the Indaba Agricultural Policy Research Institute (IAPRI, Zambia), funded by foundation fiat panis and the PARI project (see above)

Impact assessment of John Deere's approach to promoting smallholder mechanization (Zambia)

Co-application and project coordination

Joint project with the Indaba Agricultural Policy Research Institute (IAPRI, Zambia), funded by the Deere and Company

**Options for mechanizing smallholder production systems (Ghana)
Research**

Joint project with the Ghana Strategy Support Program of the International Food Policy Research Institute (IFPRI, Ghana) and the Institute of Statistical, Social and Economic Research (ISSER, University of Ghana), funded by the Deere and Company.

Scientific Publications

Publications in peer-reviewed journals

24) Ogunjimi, O., **Daum, T.**, Kariuki, J. The farming question: Intergenerational linkages, gender and youth aspirations in rural Zambia. *Rural Sociology* (forthcoming).

2022

23) **Daum, T.**, Birner, R., Biesalski, K., Blaschke, N., Bosch, C., Gütter, D., Heni, J., Kariuki, J., Katusiime, R., Seidel, A., Senon, N-Z., Woode, G. Nutrition-sensitive lockdowns: conceptual framework and empirical insights from Africa during COVID-19. *Development Policy Review*.
<https://doi.org/10.1111/dpr.12666>

2022

22) **Daum, T.**, Vehre, A., Schweizerhof, C., & Schunko, C. Edible weeds and food and nutrition security in the face of the herbicide revolution. A case study

2022

- from Zambia. International Journal of Agricultural Sustainability, 1-15, <https://doi.org/10.1080/14735903.2022.2065949>
- 21)** Omulo, G., Birner, R., Köller, K., Simunji, S., & **Daum, T.** Comparison of mechanized conservation agriculture and conventional tillage in Zambia: A short-term agronomic and economic analysis. Soil and Tillage Research, 221, 105414, <https://doi.org/10.1016/j.still.2022.105414> 2022
- 20)** Omulo, G., **Daum, T.**, Birner, R., Köller, K. Are emergent farmers the missing link for mechanized Conservation Agriculture? Perspectives from Zambia. Development in Practise, 32(3), 441-417, <https://doi.org/10.1080/09614524.2022.2036702> 2022
- 19)** **Daum, T.**, Adegbola, Y. P., Adegbola, C., Daudu, C., Issa, F. O., Kamau, G., Kergna, A. O., Mose, L., Ndirpaya, Y., Oluwole, F. A., Zossou, R., Kirui, O., Birner, R. Mechanization, digitalization, rural youth: Stakeholder perceptions on mega-topics for African agricultural transformation. Global Food Security, 32, 100616, <https://doi.org/10.1016/j.gfs.2022.100616> 2022
- 18)** **Daum, T.**, Ravichandran, T., Kariuki, J., Chagunda, M., Birner, R. Connected cows and cyber chickens? Stocktaking and case studies of digital livestock tools in Kenya and India. Agricultural Systems, 196, 103353, <https://doi.org/10.1016/j.agsy.2021.103353> 2022
- 17)** **Daum, T.**, Birner, R. The forgotten agriculture-nutrition link: farm technologies and human energy requirements. Food Security, <https://doi.org/10.1007/s12571-021-01240-1> 2021
- 16)** Bateki, C., **Daum, T.**, Salvatierra-Rojas, A., Müller, J., Birner, R., Dickhoefer, U. Of milk and mobiles: Assessing the potential of cellphone applications to reduce cattle milk yield gaps in Africa using a case study. Computer and Electronics in Agriculture, 191, 106516, <https://doi.org/10.1016/j.compag.2021.106516> 2021
- (15)** Birner, R., Blaschke, N., Bosch, C., **Daum, T.**, Graf, S., Güttler, D., Heni, J., Kariuki, J., Katusiime, R., Seidel, A. and Senon, Z.N. 'We would rather die from Covid-19 than from hunger' - Exploring lockdown stringencies in five African countries. Global Food Security, 31, 100571, <https://doi.org/10.1016/j.gfs.2021.100571> 2021
- (14)** **Daum, T.** Farm robots: Ecological utopia or dystopia? Trends in Ecology and Evolution, 36(9), 774-777, <https://doi.org/10.1016/j.tree.2021.06.002> 2021
- (13)** **Daum, T.**, Villalba, R. Anidi, O., Mayienga, S. M., Gupta, S., Birner, R. Uber for tractors? Opportunities and challenges of digital tools for tractor hire in India and Nigeria. World Development, 144, 105480, <https://doi.org/10.1016/j.worlddev.2021.105480> 2021
- (12)** LaRue, K., **Daum, T.**, Mausch, K., Harris, D. Who wants to farm? Answers depend on how you ask: a case study on youth aspirations in Kenya. The European Journal of Development Research, 33, 885–909, <https://doi.org/10.1057/s41287-020-00352-2> 2021
- (11)** Adu-Baffour, F., **Daum, T.**, & Birner, R. Governance challenges of small-scale gold mining in Ghana: Insights from a Process Net-Map Study. Land Use Policy, 102, 105271, <https://doi.org/10.1016/j.landusepol.2020.105271> 2021
- (10)** Birner, R., **Daum, T.**, Pray, C. Who drives the digital revolution in agriculture? A review of supply-side trends, players and challenges. Applied Economic Perspectives and Policy, 43(4), 1260-1285,

<https://doi.org/10.1002/aapp.13145>

- (9) Namyenya, A. **Daum, T.**, Rwamigisa, P., Birner, R. E-diary: a digital tool for strengthening accountability in agricultural extension. *Information Technology for Development*, <https://doi.org/10.1080/02681102.2021.1875186> 2021
- (8) **Daum, T.**, Capezzone, F., Birner, R. Using smartphone app collected data to explore the link between mechanization and intra-household allocation of time in Zambia. *Agriculture and Human Values*, 38(2), 411-429, <https://doi.org/10.1007/s10460-020-10160-3> 2021
- (7) **Daum, T.**, Adegbola, Y. P., Kamau, G., Kergna, O. A., Daudu, C., Zossou, R. C., Crinot, G. F., Houssou, P., Mose, L., Ndripaya, Y., Wahab A. A., Kirui, O. A., Oluwole, F. A. Perceived effects of farm tractors in four African countries, highlighted by participatory impact diagrams. *Agronomy for Sustainable Development*, 40 (47), <https://doi.org/10.1007/s13593-020-00651-2> 2020
- (6) **Daum, T.**, & Birner, R. Agricultural mechanization in Africa: Myths, realities and an emerging research agenda. *Global Food Security*, 26, 100393, <https://doi.org/10.1016/j.gfs.2020.100393> 2020
- (5) **Daum, T.** Of bulls and bulbs: Aspirations, opinions and perceptions of rural adolescents and youth in Zambia. *Development in Practice*, 29(7), 882-897, <https://doi.org/10.1080/09614524.2019.1646209> 2019
- (4) Adu-Baffour, F., **Daum, T.**, & Birner, R. Can small farms benefit from big companies' initiatives to promote mechanization in Africa? A case study from Zambia. *Food Policy*, 84, 133-145, <https://doi.org/10.1016/j.foodpol.2019.03.007> 2019
- (3) **Daum, T.**, Buchwald, H., Gerlicher, A., & Birner, R. Times Have Changed Using a Pictorial Smartphone App to Collect Time-Use Data in Rural Zambia. *Field Methods*, 31 (1), 3-22, <https://doi.org/10.1177/1525822X18797303> 2019
- (2) **Daum, T.**, Buchwald, H., Gerlicher, A., & Birner, R. Smartphone apps as a new method to collect data on smallholder farming systems in the digital age: A case study from Zambia. *Computers and Electronics in Agriculture*, 153, 144-150, <https://doi.org/10.1016/j.compag.2018.08.017> 2018
- (1) **Daum, T.**, & Birner, R. The neglected governance challenges of agricultural mechanisation in Africa - insights from Ghana. *Food Security*, 9(5), 959-979, <https://doi.org/10.1007/s12571-017-0716-9> 2017

Publications in non-peer-reviewed journals

- Daum, T.** Fleischkonsum wächst in Entwicklungsländern: mehr Nutzen als Schaden? *WELTERNÄHRUNG - das Fachjournal der Welthungerhilfe*. 2022
- Daum, T.** Landwirtschaft und Konsum - Stellschrauben für die zukünftige Ernährung der Menschheit. *Geographie Praxis*. 2022(1). 2022
- Daum, T.** Wie Jugendliche in Afrika ihre Zukunft in der Landwirtschaft sehen. *WELTERNÄHRUNG - das Fachjournal der Welthungerhilfe*. 2020
- Kawerau, L., Birner, R., Birkenberg, A., **Daum, T.** 'Cellphilms' and 'Photovoice' – how visual tools can help understand farmers' adaptation to climate change. *Rural* 21, 54 (2) 2020
- Daum, T.**, Birner, R. Welches Agrarmodell kann die Welt ernähren? *WELTERNÄHRUNG - das Fachjournal der Welthungerhilfe*. 2019

- Daum, T.** Digitisation - We need more than apps. *Rural* 21, 52(4) 2018
- Daum, T.**, Birner, R., Buchwald H., Gerlicher, A. The Potential of Apps to Study Smallholder Farming Systems and More. *Rural* 21, 51(4) 2017
- Daum, T.** Sustainable mechanisation – a hard row to hoe. *Rural* 21, 49(2) 2015
- Daum, T.** La mécanisation durable - une tâche de longue haleine. *Rural* 21, 49(2) 2015

Book chapters

- Daum, T.**, Kirui, O. Mechanization along the value chain. In Baumüller, H., Admassie, A., Hendriks, S., Tadesse, G., von Braun, J. (Eds.). *From Potentials to Reality: Transforming Africa's Food Production*. Peter Lang, Bern. 2021
- Daum, T.**, Birner, R. Der Kleinbauer als Auslaufmodell oder Ideal. In Grossarth, J. (Ed.), *Future Food - Die Zukunft der Welternährung*. Wbg Theiss (Wissenschaftliche Buchgesellschaft), Darmstadt. 2019
- Daum, T.** Sambische Kinder malen ihre Zukunft. In Grossarth, J. (Ed.), *Future Food - Die Zukunft der Welternährung*. Wbg Theiss (Wissenschaftliche Buchgesellschaft), Darmstadt. 2019
- Daum, T.** Guinea-Savanne – das gelobte Land? In Grossarth, J. (Ed.), *Future Food - Die Zukunft der Welternährung*. Wbg Theiss (Wissenschaftliche Buchgesellschaft), Darmstadt. 2019
- Daum, T.** ICT Applications in Agriculture. In Ferranti, P., Berry, E.M., Anderson, J.R. (Eds.), *Encyclopedia of Food Security and Sustainability*, Vol. 1, pp. 255–260. Elsevier. 2018

- Daum, T.**, Birner, R., Buchwald H., Gerlicher, A. Smartphones als Forschungsmethode? Die Potenziale von Apps zum Sammeln von "Small and Smart Data" zur Erforschung von kleinbäuerlichen Farmsystemen. In Ruckelshausen A. et al. (Eds.). *Digitale Marktplätze und Plattformen. Lecture Notes in Informatics*. Gesellschaft für Informatik, Bonn. 2017

Reports and working/discussion papers

- Kariuki, J., Yameogo, V., **Daum, T.**, Birner, R., Chagunda, M. Do African livestock policies address sustainability trade-offs? Evidence from Kenya, Zambia, and Burkina Faso. *Hohenheim Working Papers on Social and Institutional Change in Agricultural Development*. 002-2022. University of Hohenheim. 2022
- Daum, T.**, Seidel, A., Awoke, B., Birner, R. Animal traction, two-wheel tractors, or four-wheel tractors? A best-fit approach to guide farm mechanization in Africa. *Hohenheim Working Papers on Social and Institutional Change in Agricultural Development*. 001-2022. University of Hohenheim. 2022
- Kirui, O. K., **Daum T.**, Adegbola, Y. P., Kamau, G., Kergna, A. O., Zossou, R. C., Adegbola, C. P. M., Mose, L., Daudu, C., Ndirpaya, Y., & Fatunbi A. O. Tertiary agricultural education and agricultural mechanization training in Africa. *ZEF Working Papers*. Center for Development Research 2021
- Daum, T.**, Adegbola, Y. P., Crinot, G. F., Daudu, C., Issa, F. O., Kamau, G., Kergna, A. O., Mose, L., Ndirpaya, Y., Oluwole, F. A., Zossou, R., Kirui, O., Birner, R. Agricultural mechanization, digital agriculture, and rural youth -

stakeholder perceptions on three mega-trends from four African countries.
Hohenheim Working Papers on Social and Institutional Change in Agricultural Development. 0011-2021. University of Hohenheim.

- Ogunjimi, O., **Daum, T.**, Kariuki, J. The farming question: Intergenerational linkages, gender, and youth aspirations in rural Zambia. Hohenheim Working Papers on Social and Institutional Change in Agricultural Development. 009-2021. University of Hohenheim. 2021
- Daum, T.**, Ravichandran, T., Kariuki, J., Chagunda, M., Birner, R. Connected cows and cyber chickens? Stocktaking and case studies of digital livestock tools in Kenya and India. Hohenheim Working Papers on Social and Institutional Change in Agricultural Development. 008-2021. University of Hohenheim. 2021
- Daum, T.**, Vehre, A., Schweizerhof, C., Schunko, C. Edible weeds and food and nutrition security in the face of the herbicide revolution. A case study from Zambia. Hohenheim Working Papers on Social and Institutional Change in Agricultural Development. 007-2021. University of Hohenheim. 2021
- Daum, T.**, Birner, R., Biesalski, K., Blaschke, N., Bosch, C., Güttler, D., Heni, J., Kariuki, J., Katusiime, R., Seidel, A., Senon, N-Z., Woode, G. Between pandemics and famines: Towards nutrition-sensitive lockdowns during Covid-19 and beyond. Hohenheim Working Papers on Social and Institutional Change in Agricultural Development. 006-2020. University of Hohenheim. 2020
- Birner, R., Blaschke, N., Bosch, C., **Daum, T.**, Graf, S., Güttler, D., Heni, J., Kariuki, J., Katusiime, R., Seidel, A., Senon, N-Z., Woode, G. [Authors in alphabetical order]. 'We would rather die from Covid-19 than from hunger' - Exploring lockdown stringencies in five African countries. Hohenheim Working Papers on Social and Institutional Change in Agricultural Development. 005-2020. University of Hohenheim. 2020
- Baumüller, H., von Braun, J., Admassie, A., Badiane, O., Baraké, E., Börner, J., Bozic, I., Chichaibelu, B., Collins, J., **Daum, T.**, Gatiso, T., Gerber, N., Getahun, T., Glatzel, K., Henriks, S., Kirui, O., Kornher, L., Kubik, Z., Lüdeling, E., Mirzabaev, A., Ndiaye, P. G., Sakketa, T., Shah, M., Tadesse, G., Walakira, K. Von den Potenzialen zur Realität: Wie die afrikanische Lebensmittelproduktion gesteigert werden kann (Investitionen und politische Prioritäten für eine ausreichende, nährstoffreiche und nachhaltige Lebensmittelversorgung). Bericht von Akademya2063 (Kigali) und dem Zentrum für Entwicklungsforschung (ZEF, Bonn) 2020
- Baumüller, H., von Braun, J., Admassie, A., Badiane, O., Baraké, E., Börner, J., Bozic, I., Chichaibelu, B., Collins, J., **Daum, T.**, Gatiso, T., Gerber, N., Getahun, T., Glatzel, K., Henriks, S., Kirui, O., Kornher, L., Kubik, Z., Lüdeling, E., Mirzabaev, A., Ndiaye, P. G., Sakketa, T., Shah, M., Tadesse, G., Walakira, K. From potentials to reality: Transforming Africa's food production - Investment and policy priorities for sufficient, nutritious and sustainable food supplies. Report by Akademya2063 (Kigali) and the Center for Development Research (ZEF, Bonn) 2020
- Adu-Baffour, A., **Daum, T.**, Birner, R. Governance challenges of small-scale gold mining in Ghana: Insights from a process net-map study. Hohenheim Working Papers on Social and Institutional Change in Agricultural Development. 004-2020. University of Hohenheim. 2020

- Daum, T.**, Adegbola, Y. P., Kamau, G., Kergna, O. A., Daudu, C., Zossou, R. C., Crinot, G. F., Houssou, P., Mose, L., Ndirpaya, Y., Wahab A. A., Kirui, O., A. Oluwole, F. A. Impacts of agricultural mechanization: Evidence from four African countries. Hohenheim Working Papers on Social and Institutional Change in Agricultural Development. 003-2020. University of Hohenheim. 2020
- Daum, T.**, Villalba, R. Anidi, O., Mayienga, S. M., Gupta, S., Birner, R. Uber for tractors? Opportunities and challenges of digital tools for tractor hire in India and Nigeria. Hohenheim Working Papers on Social and Institutional Change in Agricultural Development 001-2020. University of Hohenheim. 2020
- Birner, R., **Daum, T.**, Pray, C. Farming 4.0: Harnessing Opportunities and Managing Threats of Digitalization in Crop and Livestock Farming and in the Agricultural Input Industries. Background Paper for a World Bank Report on Digital Agriculture. 2019
- Daum, T.**, & Birner, R. African agricultural mechanization - myths, realities, and an emerging research agenda. ZEF Working Paper No. 189. Center for Development Research. 2019
- Daum, T.**, Capezzone, F., Birner, R. The forgotten agriculture-nutrition link. Estimating the energy requirements of different farming technologies in rural Zambia with time-use data. ZEF Working Paper No. 182. Center for Development Research. 2019
- Daum, T.**, Capezzone, F., Birner, R. Of trackers and tractors. Using a smartphone app and compositional data analysis to explore the link between mechanization and intra-household allocation of time in Zambia. ZEF Discussion Papers on Development Policy No. 278. Center for Development Research. 2019
- Daum, T.** Of Bulls and Bulbs Aspirations and perceptions of rural youth in Zambia. ZEF Working Paper No. 171. Center for Development Research. 2018
- Adu-Baffour, F., **Daum, T.**, Birner, R. Can Big Companies' Initiatives to Promote Mechanization Benefit Small Farms in Africa? A Case Study from Zambia. ZEF Discussion Papers on Development Policy No. 262. Center for Development Research. 2018
- Daum, T.**, Huffman, W. E., & Birner, R. How to create conducive institutions to enable agricultural mechanization: A comparative historical study from the United States and Germany. Economics Working Papers IOWA State University No. 18009. 2018
- Policy Briefs**
- Daum. T.**, Baumüller, H. Like Uber for tractors? How to strengthen the rural sharing economy in India and Africa. PARI Policy Brief 23. Center for Development Research. 2020
- Daum T.**, Heni, J. The forgotten agriculture-nutrition link. Estimating the energy requirements of different farming technologies in rural Zambia. PARI Policy Brief 21. Center for Development Research. 2020
- Daum T.**, Heni, J. What are the effects of agricultural mechanization? A case study from Zambia. PARI Policy Brief 20. Center for Development Research. 2020
- Daum T.**, Thoelen, J. How to keep tractors running in Africa? Lessons for knowledge and skills development from Zambia. PARI Policy Brief 13. Center for Development Research. 2019

Daum T. , Birner, R. How to develop knowledge and skills for agricultural mechanization in Africa? Historical examples from the United States and Germany. PARI Policy Brief 7. Center for Development Research.	2017
Daum T. , Birner, R. Smallholder agricultural mechanization in Africa - addressing governance challenges of state- and market-led mechanization efforts. PARI Policy Brief 5. Center for Development Research.	2017
Daum T. , Birner, R. La mecanisation des petites exploitations agricoles en Afrique. PARI Note de Politique 5. Center for Development Research.	2017
Others	
Daum, T. , Vehre, A., Schweizerhof, C., & Schunko, C. Herbicides threaten edible weeds in Zambia – that may be bad news for local food security. The Conversation.	2022
Daum, T. , Harris, D., Mausch, K., LaRue, K. How young Kenyans feel about farming goes against conventional wisdom. The Conversation.	2021
Daum, T. Tractors can change farming in good ways and bad: lessons from four African countries. The Conversation.	2020
Daum T. What young Zambians have to say about making farming more attractive. The Conversation.	2019
Daum T. , Birner, R. What needs to be done to give Africa's smallholder farmers access to machinery. The Conversation.	2017
Daum T. , Birner, R. (2017). How to Unleash Farm Mechanisation in Africa and How to Tame it Straightaway. E- International Relations.	2017

Selected Non-Scientific Publications

Daum, T. Agrar-Fachmann Swinnen: „Ich sehe Parallelen mit dem Zusammenbruch des Ostblocks“. Frankfurter Allgemeine Zeitung.	2020
Daum, T. Hungersnot – die andere Pandemie. Frankfurter Allgemeine Zeitung Woche.	2020
Daum, T. Huhn für die Welt. FAZ Woche.	2019
Daum, T. , Birner, R. Der Kleinbauer als Politikum. FAZ.	2018
Daum, T. Welternährung: Ein unentdeckter Brotkorb für Afrika. FAZ Woche.	2018
Daum, T. Ein sambisches Dorf malt seine Jugendträume. FAZ.	2018
Daum T. Die Supermarkt-Revolution. Schweizer Tagesanzeiger.	2018
Daum T. Die Supermarkt-Revolution. Süddeutsche Zeitung.	2018
Daum T. Der schlafende Riese. Süddeutsche Zeitung.	2016
Daum T. Der Super-Food-Baum. Schweizer Tagesanzeiger.	2016
Daum T. Die Entdeckung des Baobab. Süddeutsche Zeitung.	2016

Presentations at selected conferences

Food Systems for New Realities - Agri4D 2021, a virtual conference by the Swedish University of Agricultural Science (SLU) and the Swedish International Agriculture Network Initiative (SIANI).	2021
Panel on Food for Future at “2nd Cologne Conference on Food for Future”, virtual conference by the Competence Area Food Security, University of Cologne	2021
31th International Conference of Agricultural Economists (ICAE), Virtual	2021
Panel on “Building a research and learning agenda for digital agriculture” at the “Agriculture in the Digital Age” conference by Cornell University, Bill and Melinda Gates Foundation, and USAID	2021
Discussant at the virtual book launch on “An evolving paradigm of agricultural mechanization development: How much can Africa learn from Asia?” by the International Food Policy Research Institute (IFPRI)	2021
Virtual Tropentag	2020
Webinar on “Will COVID-19 accelerate the digital revolution in agriculture and the Bioeconomy?” by the International Consortium on Bioeconomy Research (ICABR)	2020
PARI Annual Research Planning Meeting, Dakar, Senegal	2019
Working group meeting “mechanization” of the Green Innovation Centers of the GIZ, Helmstedt, Germany	2019
6th African Conference of Agricultural Economists (ACAE), Abuja, Nigeria	2019
Annual Meeting Agricultural and Applied Economists Association (AAEA), Atlanta, United States of America	2019
Workshop „Mechanisierung der Landwirtschaft in Entwicklungsländern“ by KfW, Frankfurt, Germany	2019
Brown Bag Lunch “Präzisionslandwirtschaft – Neue Möglichkeiten für die Entwicklungszusammenarbeit?” by GIZ, Eschborn, Germany	2019
Workshop "Improving the Availability and Quality of Individual-level Data on Women and Youth" by ICID, World Bank and University of Tor Vergata, Rome, Italy	2018
40th conference of the International Association for Time Use Research (IATUR), Budapest, Hungary	2018
Statcrops, Hohenheim, Germany	2018
Tropentag, Ghent, Belgium	2018
58th Jahrestagung der GEWISOLA, Kiel, Germany	2018
30th International Conference of Agricultural Economists (ICAE), Vancouver, Canada	2018
22nd Conference of the International Consortium on Applied Bioeconomy Research (ICABR), Washington, United States of America	2018
IFPRI Malawi Strategy Support Program Seminar Series, Lilongwe, Malawi	2017
GlobalFood Symposium, Göttingen, Germany	2017
World Food Day Colloquium, Hohenheim, Germany	2017

Tropentag, Bonn, Germany	2017
PARI, Annual Research Planning Meeting, Nairobi, Kenya	2016
7. Africa Agriculture Science Week, Kigali, Rwanda	2016
Grand Challenges Meeting Bill and Melinda Gate Foundation, Beijing, China	2015

Teaching and Supervision Activities

Lectures

Lecture on "Digital tools for smallholder agriculture" for the Massive Open Online Course (MOOC) "Concepts of Sustainable Bioeconomy" of the University of Hohenheim and the Strategic Partnership ABBEE (Accelerating the transition towards the Bio-Based Economy via Education)	2020
Internationale Wirtschaft, globaler Wandel und Ernährungssicherung	2020 - ongoing
Policy Processes in Agriculture and Natural Resource Management	2017 - ongoing
Governance, Institutions, and Organisational Development	2017 - ongoing
Qualitative Research Methods in Rural Development Studies	2017 - ongoing
Agricultural Economics Seminar	2017 - ongoing
Innovations in Agriculture	2017 - ongoing
Methods in Interdisciplinary Collaboration	2017 - 2020
Projects in Bioeconomic Research	2017 - 2020
Ressourcenschutz und Ernährungssicherung	2017 - 2019
Interdisciplinary Aspects of Food Security	2017 - 2018

Awards and honours

„Eliteprogramm für Postdoktorandinnen und Postdoktoranden“ [Postdoctoral Fellowship For Leading Early Career Researches of the Baden-Württemberg Stiftung 2021] by the Baden-Württemberg Stiftung	2021
Communication Award by the German Society of Economic and Social Sciences in Agriculture (GEWISOLA)	2020
Winner of the "Josef G. Knoll - European Science Award" by the foundation fiat panis, Ulm, Germany	2020
Winner of "Landmark in the land of ideas" initiative by the German government and the Federal Association of German Industry	2018
Best presentation at 58th conference of the German Society of Economic and Social Sciences in Agriculture (GEWISOLA), Kiel, Germany	2018
Best paper at 58th conference of German Society of Economic and Social Sciences in Agriculture (GEWISOLA), Kiel, Germany	2018

Advisory work and consulting

Food and Agriculture Organisation (FAO) of the United Nations (UN) Background paper on “Agricultural Mechanization, Automation and Sustainable Agri-Food Systems Transformation in the Global South” for the FAO flagship publication “The State of Food and Agriculture” (SOFA, 2022)	2021 - ongoing
Competence Center for Biodiversity and Integrative Taxonomy (University of Hohenheim and State Museum of Natural History) Member of the advisory board	2021 - ongoing
Welthungerhilfe Member of the editorial board of the magazine “Welternährung”	2019 - ongoing
GIZ Working group on agricultural mechanization supporting the Green Innovation Centres for the Agriculture and Food Sector (GIC), which operate in 14 African countries and India, jointly with CIMMYT and the Food and Agriculture Organisation (FAO) of the United Nations	2019 - ongoing
World Bank Background paper on “Farming 4.0: Harnessing Opportunities and Managing Threats of Digitalization in Crop and Livestock Farming and in the Agricultural Input Industries” for the book “What's Cooking: Digital Transformation of the Agrifood System” (2021)	2019

Additional Activities

Studenteninitiative Club of Rome, Mannheim, Germany Interdisciplinary debating society	11/2011 – 10/2012
Model United Nations, Mannheim, Germany Simulation of the United Nations	11/2011 – 10/2012
Australia Work and Travel	03/2009 – 09/2009

Skills

Computer Literacy
ICDL/ ECDL (European Computer Driving Licence)
STATA
QDA Miner

Language skills
German (mother tongue)
English (C2)
French (B2)
Swedish (B1)