



Eike Lüdeling

PROFESSOR OF HORTICULTURAL SCIENCES

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Experienced agricultural scientist with a passion for horticulture, impact-oriented research, agroforestry, decision analysis and holistic, participatory modeling.

Personal information

- Born 01 November 1977 in Hannover, Germany
- Married, with two children

Scientific interests

- Horticulture
- Agricultural and horticultural modeling
- Climate change impacts, adaptation and mitigation
- Fruit and nut tree dormancy
- Agroforestry
- International agricultural development
- Holistic systems analysis
- Decision analysis
- Spatial analysis and remote sensing
- Inter- and transdisciplinary research approaches

Education

PhD in Agricultural Sciences (Dr. agr.)

UNIVERSITY OF KASSEL

Witzenhausen, Germany

2007

MSc in International Agricultural Development

UNIVERSITY OF CALIFORNIA AT DAVIS

Davis, California, USA

2005

MSc in International Ecological Agriculture

UNIVERSITY OF KASSEL

Witzenhausen, Germany

2004

Diplom I in Organic Agriculture

UNIVERSITY OF KASSEL

Witzenhausen, Germany

2003

Academic positions

Chief Executive Officer

PHENODECISIONS GMBH

Königswinter, Germany

Jul 2025 - present

Professor (W3)

HORTICULTURAL SCIENCES (HORTIBONN), UNIVERSITY OF BONN

Bonn, Germany

Apr 2018 - present

Specialist (Senior Decision Analyst)

GLOBAL CROP DIVERSITY TRUST

Bonn, Germany

Aug 2014 - Mar 2018

Associate Senior Scientist

CENTER FOR DEVELOPMENT RESEARCH (ZEF), UNIVERSITY OF BONN

Bonn, Germany

Jul 2014 - Mar 2018

Senior Decision Analyst

WORLD AGROFORESTRY CENTRE (ICRAF)

Nairobi, Kenya and Bonn, Germany

Apr 2013 - Mar 2018

Climate Change Scientist

WORLD AGROFORESTRY CENTRE (ICRAF)

Nairobi, Kenya

Feb 2010 - Mar 2013

Postdoctoral Scholar

DEPARTMENT OF PLANT SCIENCES, UNIVERSITY OF CALIFORNIA AT DAVIS

Davis, California, USA

Nov 2008 - Dec 2009

Postdoctoral Scholar

DEPARTMENT OF LAND, AIR AND WATER RESOURCES

Davis, California, USA

Jan 2008 - Oct 2008

Research Associate and PhD candidate

DEPARTMENT OF ORGANIC PLANT PRODUCTION AND AGROECOSYSTEMS RESEARCH IN THE TROPICS AND SUBTROPICS,
UNIVERSITY OF KASSEL

Witzenhausen, Germany

Jul 2005 - Dec 2007

Publications and citation metrics

Publications in peer-reviewed journals: **158**

Journal articles without peer-review: **6**

Books: **4**

Book chapters: **15**

Software packages: **2**

Citations: **13041** – h-index: **59** – i10-index: **125**

(citation metrics according to Google scholar on 16 October 2025)

Awards, honors and grants

Poster Award

TROPENTAG CONFERENCE

Witzenhausen, Germany

2007

Fulbright Scholarship

FULBRIGHT FOUNDATION

Davis, California, USA

2004 - 2005

LEAFSE Scholarship

LEARNING THROUGH EXCHANGE – AGRICULTURE, FOOD SYSTEMS AND ENVIRONMENT - SEMESTER IN AUSTRALIA

Perth, Australia

2004

Gustav-Hacker-Award

BEST DIPLOM | GRADUATE IN THE FACULTY OF ORGANIC AGRICULTURE

Witzenhausen, Germany

2003

Travel Grant

GERMAN ACADEMIC EXCHANGE SERVICE (DAAD)

Puno & Cuzco, Peru

2002

Editorial positions and other academic service

Chairman

ARBEITSGEMEINSCHAFT FÜR TROPISCHE UND SUBTROPISCHE AGRARFORSCHUNG (ATSAF; COUNCIL FOR TROPICAL AND
SUBTROPICAL AGRICULTURAL RESEARCH)

2025 - present

Study Program Director

MSC PROGRAM "AGRICULTURAL SCIENCES AND RESOURCE MANAGEMENT IN THE TROPICS AND SUBTROPICS" (ARTS) AT THE
UNIVERSITY OF BONN

2021 - present

Associate of the Board

ARBEITSGEMEINSCHAFT FÜR TROPISCHE UND SUBTROPISCHE AGRARFORSCHUNG (ATSAF; COUNCIL FOR TROPICAL AND
SUBTROPICAL AGRICULTURAL RESEARCH)

2021 - 2025

Deputy Head of International Cooperation

DEUTSCHER FACHVERBAND FÜR AGROFORSTWIRTSCHAFT (DEFAF; GERMAN AGROFORESTRY ASSOCIATION)

2021 - 2023

Member of the Selection Committee

ATSAF ACADEMY

2021 - present

Deputy Editor

CLIMATIC CHANGE

2021 - 2025

Associate Deputy Editor

CLIMATIC CHANGE

2019 - 2021

Academic Advisory Board

SUSTAINSAHEL PROJECT

2020 - present

Member of the Editorial Advisory Board

AGRICULTURAL SYSTEMS

2021 - present

Member of the Editorial Board

CARBON FOOTPRINTS

2021 - 2023

Member of the Editorial Board

LAND (MDPI)

2020 - 2023

Guest Editor of Special Issue on Fruit and Nut Tree Phenology in a Warming World

AGRONOMY MDPI

2019 - 2020

Member of Selection Committees

DEUTSCHER AKADEMISCHER AUSTAUSCHDIENST (DAAD; GERMAN ACADEMIC EXCHANGE SERVICE), SEVERAL PROGRAMS

2018 - present

Member of the Steering Committee

KOMPETENZZENTRUM GARTENBAU (KOGA; COMPETENCE CENTER HORTICULTURE)

2018 - present

Member of the Editorial Advisory Board

GLOBAL CHANGE BIOLOGY

2014 - ?

Co-Editor of Special Issue on Sustainability Challenges

CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY

2013 - 2014

Associate Editor

FRONTIERS IN ENVIRONMENTAL SCIENCE

2013 - 2021

Member of the Editorial Board

THE SCIENTIFIC WORLD JOURNAL

2012 - 2013

Reviewing experience

I've served as a peer-reviewer for the following 106 academic journals:

Acta Horticulturae – Advances in Meteorology – Advances in Research – Agricultural and Forest Entomology – Agricultural and Forest Meteorology – Agricultural Systems – Agriculture, Ecosystems and Environment – Agroforestry Systems – Agronomy Research – American Journal of Enology and Viticulture – Applied Biological Research – Applied Sciences – Arid Land Research and Management – Atmosphere – Australian Journal of Grape and Wine Research – Biocatalysis and Agricultural Biotechnology – BMC Plant Biology – Botany – Canadian Journal of Earth Sciences – Carbon Footprints – Catena – Climate Research – Climate Services – Climatic Change – Computers and Electronics in Agriculture – Crop Science – Earth – Earth's Future – Earth and Space Science – Ecological Indicators – Ecosphere – Environmental and Experimental Botany – Environmental Challenges – Ernährungs Umschau – European Journal of Agronomy – Field Crops Research – Forest and Society – Forest Ecology and Management – Forest Policy and Economics – Forestry: An International Journal of Forest Research – Forests – Forests, Trees & Livelihoods – Fresenius Environmental Bulletin – Frontiers in Ecology and Evolution – Frontiers in Environmental Science – Frontiers in Plant Science – Fruits – Genetic Resources and Crop Evolution – Global Change Biology – Global Ecology and Biogeography – Global Ecology and Conservation – Heliyon – Horticulture, Environment, and Biotechnology – HortScience – International Journal of Agronomy – International Journal of Biometeorology – International Journal of Climate Change Strategies and Management – International Journal of Climatology – International Journal of Environment and Climate Change – International Journal of Environmental Research and Public Health – International Journal of Environmental Science and Technology – International Journal of Fruit Science – ISPRS International Journal of Geo-Information – Journal of Agricultural Science and Technology – Journal of Agriculture and Rural Development in the Tropics and Subtropics – Journal of Arid Environments – Journal of Environmental Management – Journal of Environmental Quality – Journal of Experimental Botany – Journal of Plant Nutrition and Soil Science – Land – Land Degradation & Development – Mathematical Geosciences – Mitigation and Adaptation Strategies for Global Change – Natural Hazards and Earth System Sciences – Nature – Nature Climate Change – Nature Communications – Nature Plants – Nature Sustainability – New Phytologist – Nutrient Cycling in Agroecosystems – Plant and Soil – Plant Methods – PLoS ONE – PNAS – QScience Connect – Regional Environmental Change – Remote Sensing – Remote Sensing of Environment – Renewable Agriculture and Food Systems – Science Advances – Science of the Total Environment – Scientia Horticulturae – Scientific Reports – Solutions – South African Journal of Botany – South African Journal of Science – Sustainability – Sustainability Science – The Journal of Horticultural Science & Biotechnology – The Scientific World Journal – Theoretical and Applied Climatology – Tree Physiology – Urban Forestry & Urban Greening – World Development

Teaching experience

Decision Analysis and Forecasting

MSC CROP SCIENCE & MSC AGRICULTURAL SCIENCES AND RESOURCE MANAGEMENT IN THE TROPICS AND SUBTROPICS

University of Bonn

2021 - present

Tree Phenology Analysis with R	University of Bonn
MSC CROP SCIENCE & MSC AGRICULTURAL SCIENCES AND RESOURCE MANAGEMENT IN THE TROPICS AND SUBTROPICS	2020 - present
Horticultural Production and Research	University of Bonn
MSC CROP SCIENCE & MSC AGRICULTURAL SCIENCES AND RESOURCE MANAGEMENT IN THE TROPICS AND SUBTROPICS	2021 - present
Ressourcenschonendes Produkt- und Qualitätsmanagement bei Sonderkulturen	University of Bonn
MSC CROP SCIENCE	2020 - 2021
Land use and land degradation	University of Bonn
MSC AGRICULTURAL SCIENCES AND RESOURCE MANAGEMENT IN THE TROPICS AND SUBTROPICS	2019
Anbau, Ertragsbildung und Ertragsfaktoren landwirtschaftlicher und gärtnerischer Kulturpflanzen	University of Bonn
BSC AGRARWISSENSCHAFTEN	2018 - 2021
Horticultural Production Systems	University of Bonn
MSC CROP SCIENCE	2018 - 2021
Product and Process Quality	University of Bonn
MSC CROP SCIENCE	2018 - 2020
Anbau und Physiologie der Sonderkulturen	University of Bonn
BSC AGRARWISSENSCHAFTEN	2018 - 2021
Grundnahrungsmittel	University of Bonn
BSC ERNÄHRUNGSWISSENSCHAFTEN	2018 - 2020
Agricultural Production Systems in the Tropics	University of Bonn
MSC AGRICULTURAL SCIENCES AND RESOURCE MANAGEMENT IN THE TROPICS AND SUBTROPICS	2018 - present
Crop Physiology	University of Bonn
MSC CROP SCIENCE	2018 - 2019
Tropical Crop Production Systems	University of Bonn
MSC AGRICULTURAL SCIENCES AND RESOURCE MANAGEMENT IN THE TROPICS AND SUBTROPICS	2018
Nachhaltige gärtnerische und agrarische Landnutzung	University of Bonn
BSC AGRARWISSENSCHAFTEN	2018
Selected topics	University of Bonn
ZEF C GRADUATE COURSE	2015 - 2021
Integrated Land Use Systems and Climate Change	University of Freiburg
INTEGRATED LAND USE SUMMER SCHOOL	2015
Collection and Processing of Spatial Data	ARC, Khartoum, Sudan
CAPACITY BUILDING FOR SCIENTISTS	2007
Introduction to Ecology	University of Kassel
BSC ORGANIC AGRICULTURE	2006
Crops of the Tropics and Subtropics	University of Kassel
BSC ORGANIC AGRICULTURE	2006 - 2007
Collection and Processing of Spatial Data	University of Kassel
BSC ORGANIC AGRICULTURE & MSC COURSES	2006 - 2007
GIS & GPS	University of Kassel
BSC ORGANIC AGRICULTURE & MSC COURSES	2005

Student supervision (completed degrees only) _____

PhD students - main supervision (7)

Dr. Eduardo Fernandez (2021), Dr. Jan Ellenberger (2021), Dr. Marius Rütt (2021), Dr. Oscar Burbano-Figueroa (2021), Dr. Anna Räscher (2023), Dr. Thi Thu Giang Luu (2024), Dr. Hoa Do (2025)

PhD students - informal supervision (major inputs, but no official role) (14)

Dr. Sebastian Saa (University of California Davis, USA, 2013), Dr. Saiful Muhammad (University of California Davis, USA, 2013), Dr. Darren Ficklin (University of California Davis, USA, 2010), Dr. Kimberly Steinmann (University of California Davis, USA, 2010)

Davis, USA, 2012), Dr. Shem Kuyah (Jomo Kenyatta University of Agriculture and Technology, Kenya, 2012), Dr. Liang Guo (Kunming Institute of Botany, China, 2013), Dr. Haiying Yu (Kunming Institute of Botany, China, ~2013), Dr. Sailesh Ranjitkar (Kunming Institute of Botany, China, 2012), Dr. Kraig Kraft (University of California Davis, USA, 2009), Dr. Cory Whitney (University of Kassel, Germany, 2018), Dr. Nicola Favretto (University of Leeds, UK, 2014), Dr. Haifa Benmoussa (University of Tunis, Tunisia, 2018), Dr. Alvaro Delgado (Universidad de Oviedo, Spain, 2022), Dr. Negusse Yigzaw (University of Nairobi, Kenya, 2023)

PhD students - external examiner (4)

Dr. Rebecca Olive Darbyshire (University of Melbourne, Australia, 2013), Dr. Michael Kanzler (BTU Cottbus, Germany, 2021), Dr. Bianca Drepper (KU Leuven, Belgium, 2022), Dr. Omar Abou Saaid (Université Cadi Ayyad, Marrakesh, Morocco, 2025)

PhD students - other involvements in PhD committees: 24

MSc theses: 46 (plus 14 as chairman of the defense)

BSc theses: 29

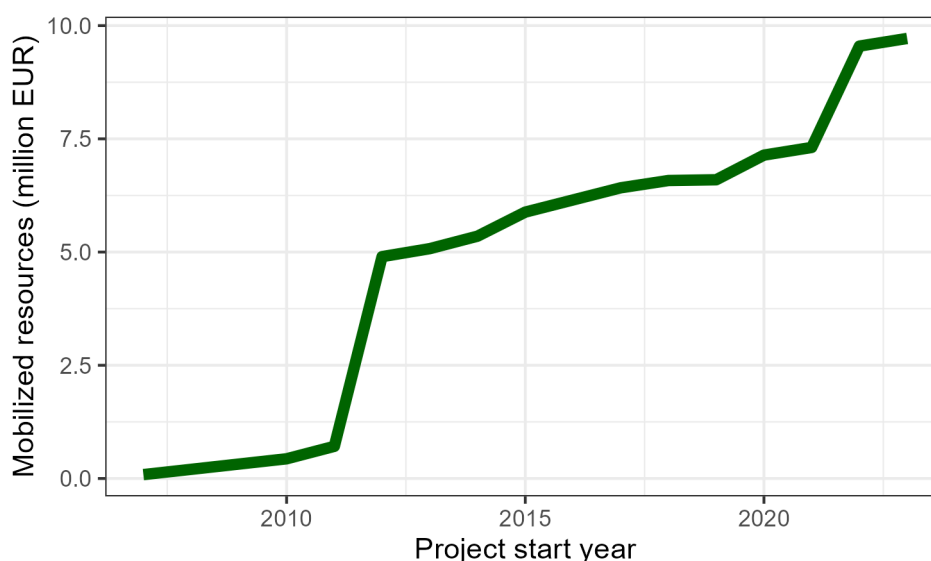
Third-party funding

Career total of third-party funding: 9.7 million EUR

Third-party funding of last 5 years (since 2019, totals for the whole working group, by project start year):

- 2023 : 169000 EUR
- 2022 : 2238039 EUR
- 2021 : 169000 EUR
- 2020 : 544094 EUR
- 2019 : 16949 EUR

Cumulative third-party funding:



Funded projects:

Identifying information needs for improving management decisions in recent and future horticultural production systems

PHENO ROB CLUSTER OF EXCELLENCE (DFG)

Bonn, Germany

2023 - 2025

Verbundprojekt Landmanagement Subsahara-Afrika: Unterstützung von Entwicklungspfadern für eine nachhaltige Landwirtschaft in Afrika (INTERFACES)

BMBF

Bonn, Germany

2022 - 2026

Nutrition Intervention Forecasting and Monitoring (NIFAM) BMEL BLE	Bonn, Germany 2022 - 2025
Agroforestry at the forefront of farming sustainability in multifunctional landscapes in Europe (REFOREST) EU HORIZON EUROPE	Bonn, Germany 2022 - 2026
Abschätzung der Folgen des Klimawandels für gartenbauliche Kulturen in Nordrhein-Westfalen USL	Bonn, Germany 2022 - 2025
Biophysikalische Potentiale von und skalenübergreifende Entscheidungsfindung zur Agroforstwirtschaft für CDR (ABCDR) BMBF	Bonn, Germany 2022 - 2025
NewBIAS - New Biochars for the Improvement of Agricultural Soils BioSC	Bonn, Germany 2022 - 2025
Robotic Manipulation in Horticulture: From Pruning to Harvesting PHENO ROB CLUSTER OF EXCELLENCE (DFG)	Bonn, Germany 2021 - 2024
Potenziale und Hindernisse einer regionalen Nährstoffkreislaufwirtschaft DEUTSCHE BUNDESSTIFTUNG UMWELT	Bonn, Germany 2020 - 2022
Decision Support for determining effective climate measures in banana production GIZ	Bonn, Germany 2020
Entwicklung eines ganzheitlichen Nachhaltigkeitsstandards für den Obstbau EIP-AGRI OPERATIONAL GROUP	Bonn, Germany 2020 - 2023
Adapting Mediterranean Orchards – science-based design of resilient fruit tree portfolios for the Mediterranean region (AdaMedOr) PRIMA	Bonn, Germany 2020 - 2023
Support to ongoing collaborative projects CGIAR RESEARCH PROGRAM ON WATER, LAND AND ECOSYSTEMS (WLE; VIA ICRAF)	Bonn, Germany 2019 - 2020
Innovationen für NRW zur Steigerung der Ressourceneffizienz und Umweltverträglichkeit im Gartenbau STIFTUNG ZUKUNFT NRW	Bonn, Germany 2018 - 2021
Phenological And Social Impacts of Temperature increase – climatic consequences for fruit production in Tunisia, Chile and Germany BMBF BIOECONOMY PROGRAM	Bonn, Germany 2017 - 2020
Probabilistic Causal Models for Nutrition Outcomes of Agricultural Actions INNOVATIVE METRICS AND METHODS FOR AGRICULTURE AND NUTRITION ACTIONS (IMMANA)	Bonn, Germany 2015 - 2018
Targeting Agricultural Innovation in the northern Volta basin INNOVATION FUND OF THE CGIAR RESEARCH PROGRAM ON WATER, LAND AND ECOSYSTEMS (WLE)	Nairobi, Kenya & Bonn, Germany 2015 - 2017
Influencing and linking policies and institutions from national to local level for the development and adoption of climate-resilient food systems CGIAR RESEARCH PROGRAM ON CLIMATE CHANGE, AGRICULTURE AND FOOD SECURITY (CCAFS)	Nairobi, Kenya 2014 - 2017
Assessing Risks of Investment in Groundwater Resources in Sub-Saharan Africa NATURAL ENVIRONMENT RESEARCH COUNCIL, UNITED KINGDOM	Nairobi, Kenya 2013 - 2014
Improving Sustainable Productivity in Farming Systems and Enhanced Livelihoods through Adoption of Evergreen Agriculture in Eastern Africa AUSTRALIAN COUNCIL FOR INTERNATIONAL AGRICULTURAL RESEARCH	Nairobi, Kenya 2012 - 2015
Suitable agroforestry germplasm for adaptation of smallholder farming systems to climate change - identification and introduction CGIAR RESEARCH PROGRAM ON FORESTS, TREES AND AGROFORESTRY	Nairobi, Kenya 2011
Multi-disciplinary species distribution modeling – climate change impact projection and adaptation planning with climatic, environmental and socioeconomic factors CGIAR RESEARCH PROGRAM ON CLIMATE CHANGE, AGRICULTURE AND FOOD SECURITY (CCAFS)	Nairobi, Kenya 2012

Adaptation of people to climate change in East Africa: Ecosystem services, risk reduction and human well-being

ROCKEFELLER FOUNDATION

Nairobi, Kenya

2012 - 2015

Past and future climate change in Busia and Homa Bay and their impacts on crop yields

GIZ

Nairobi, Kenya

2011

Enhancing Farm Productivity in Smallholder Agrosilvopastoral Systems in the Communes of Busoni and Bugabira, Kirundo Province, Burundi

EUROPEAN COMMISSION (SUBGRANT)

Nairobi, Kenya

2011 - 2012

Tree phenology models for climate change projection and improved water and nutrient management

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

Davis, California, USA

2010 - 2012

Increasing the competitiveness of walnut growers: economic vs. environmental impact

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

Davis, California, USA

2007 - 2010

Publications

JOURNAL PAPERS (158)

- Caspersen L, Schiffers K, Milyaev A, Neuwald D & **Luedeling E.** (2025). Spring phenology projections for apples in southwestern Germany indicate persistent frost risk levels. *Agricultural and Forest Meteorology*, 374, 110824. doi: 10.1016/j.agrformet.2025.110824
- Caspersen L, Schiffers K, Picornell A, Egea JA, Delgado A, El Yaacoubi A, Benmoussa H, Rodrigo J, Fadón E, Ben Mimoun M, Ghrab M, Kodad O, Ruiz D & **Luedeling E.** (2025). Contrasting responses to climate change – predicting bloom of major temperate fruit tree species in the Mediterranean region and Central Europe. *Agricultural and Forest Meteorology*, 375, 110859.
- Do H, Whitney C, Storm H, Nguyen HTX, La N & **Luedeling E.** (2025). Markets and incentives strongly drive agroforestry adoption: Insights from ethnic minority smallholders in Son La, Vietnam. *Agroforestry Systems*, 99(5), 129. doi: 10.1007/s10457-025-01199-4
- Erlangga E, Do H, Dewi S & **Luedeling E.** (2025). Understanding adoption risks of peat-adapted agroforestry options in South Sumatra through decision analysis. *Agroforestry Systems*, 99(8), 252. doi: 10.1007/s10457-025-01308-3
- Ford TW, Chen L, Fernandez E, Wahle E, **Luedeling E**, Todey D & Nowatzke L. (2025). Historical and Projected Changes in Chill Accumulation and Spring Freeze Risk in the Midwest United States. *Agricultural and Forest Meteorology*, 368, 110532. doi: 10.2139/ssrn.4945984
- Kopton J, De Bruin S, Schulz D & **Luedeling E.** (2025). Combining spatio-temporal pest risk prediction and decision theory to improve pest management in smallholder agriculture. *Computers and Electronics in Agriculture*, 236, 110426. doi: 10.1016/j.compag.2025.110426
- Kopton J & **Luedeling E.** (2025). Value of precision: A framework for quantifying the benefits from increased application rate precision in horticulture. *Precision Agriculture*, 26(6), 89. doi: 10.1007/s11119-025-10277-7
- Mojahid H, Caspersen L, Delgado A, Dapena E, **Luedeling E**, Schiffers K & Fernandez E. (2025). Cross-regional validation of the PhenoFlex framework for flowering date prediction in apple: A study across Germany and Spain. *Agricultural and Forest Meteorology*, 373, 110746.
- Picornell A, Caspersen L & **Luedeling E.** (2025). The influence of calibration data diversity on the performance of temperature-based spring phenology models for forest tree species in Central Europe. *Agricultural and Forest Meteorology*, 360, 110302. doi: 10.1016/j.agrformet.2024.110302
- Schmitz C, Zimmerman L, Schiffers K, Balmer M & **Luedeling E.** (2025). ProbApple – A probabilistic model to forecast apple yield and quality. *Agricultural Systems*, 226, 104298.
- Schmitz C, Zimmermann L, Schiffers K, Whitney C, Balmer M & **Luedeling E.** (2025). Model-based decision support for the choice of active spring frost protection measures in apple production. *Agricultural Systems*, 224, 104255. doi: 10.1016/j.agsy.2024.104255
- Schmitz C, Zimmermann L, Whitney C, Balmer M & **Luedeling E.** (2025). Decision support for selecting suitable frost protection methods for apricot orchards in Germany. *Acta Horticulturae*, (1425), 231–238. doi: 10.17660/ActaHortic.2025.1425.30
- Shinwari A, Caspersen L, Schiffers K & **Luedeling E.** (2025). Historical and future winter chill for temperate fruit and nut trees in Afghanistan. *Climatic Change*, 178(1), 2. doi: 10.1007/s10584-024-03840-0
- Whitney C, O'Brien G, Dlamini V, Greffiths IJ, Dickens C & **Luedeling E.** (2025). Balancing ecosystem sustainability and irrigated smallholder agriculture: A modeling approach for water resource management. *Journal of Hydrology*, 651, 132560. doi: 10.1016/j.jhydrol.2024.132560
- Yao L, Zhao G, Yan C, Srivastava AK, Tian Q, Jin N, Qu J, Yin L, Yao N, Webber H, **Luedeling E** & Yu Q. (2025). Influence of Information Sources on Technology Adoption in Apple Production in China. *Agriculture*, 15(16), 1785. doi: 10.3390/agriculture15161785
- Bosdijk J, De Feiter VS, Gaiser A, Smink T, Thorkelsdottir G, Van Vliet AJH & **Luedeling E.** (2024). False springs in the Netherlands: Climate change impact assessment with the false spring damage indicator model. *Regional Environmental Change*, 24(2), 73. doi: 10.1007/s10113-024-02235-2
- Caspersen L, Jarvis-Shean K & **Luedeling E.** (2024). Projecting almond bloom dates in California with the PhenoFlex framework. *Acta Horticulturae*, (1406), 455–464. doi: 10.17660/ActaHortic.2024.1406.64

- Do H, Whitney C, La N, Storm H & **Luedeling E.** (2024). Adapting agroforestry to upland farming systems: Narratives from smallholder farmers in Northwest Vietnam. *Agronomy for Sustainable Development*, 44, 17. doi: 10.1007/s13593-024-00954-8
- Luu TTG, **Luedeling E**, Biber-Freudenberger L & Whitney C. (2024). How to bridge the last mile in agro-climate service adoption? The importance of farmers' needs, attitudes and interpersonal relations in understanding impact pathways. *Environment, Development and Sustainability*. doi: 10.1007/s10668-023-04388-2
- Luu TTG, **Luedeling E**, Whitney C & Biber-Freudenberger L. (2024). Stakeholder engagement in agro-climate service planning. *Climate Services*, 33, 100432. doi: 10.1016/j.cliser.2023.100432
- Milyaev A, Born U, Sprich E, Hagemann M, Flachowsky H & **Luedeling E.** (2024). Identifying indicators of apple bud dormancy status by exposure to artificial forcing conditions. *Tree Physiology*, 44(10), tpae112. doi: 10.1093/treephys/tpae112
- Milyaev A, Klaiber I, Tandron-Moya YA, Lempe J, Pfannstiel J, **Luedeling E**, Wirén N von & Flachowsky H. (2024). Exploring the role of tryptophan in biennial bearing: A mobile molecule that is exported from growing apples but does not suppress flowering. *European Journal of Horticultural Science*, 89(6), 1–10. doi: 10.17660/eJHS.2024/030
- Osorio-Marín J, Ribera A, **Luedeling E** & Cobo N. (2024). Climate change impacts on temperate fruit and nut production: A systematic review. *Frontiers in Plant Science*, 15, 1352169.
- Drogoudi P, Cantín CM, Brandi F, Butcaru A, Cos-Terrer J, Cutuli M, Foschi S, Galindo A, García-Brunton J, **Luedeling E**, Moreno MA, Nari D, Pantelidis G, Reig G, Roera V, Ruesch J, Stanica F & Giovannini D. (2023). Impact of Chill and Heat Exposures under Diverse Climatic Conditions on Peach and Nectarine Flowering Phenology. *Plants*, 12(3), 584. doi: 10.3390/plants12030584
- Fadón E, Do H, Blanke M, Rodrigo J & **Luedeling E.** (2023). Apparent Differences in Agroclimatic Requirements for Sweet Cherry Across Climatic Settings Reveal Shortcomings in Common Phenology Models. *Agricultural and Forest Meteorology*, 333, 109387. doi: 10.2139/ssrn.4102480
- Fadón E, Fernandez E, **Luedeling E** & Rodrigo J. (2023). Agroclimatic requirements and adaptation potential to global warming of Spanish cultivars of sweet cherry (*Prunus avium* L.). *European Journal of Agronomy*, 145, 126774. doi: 10.1016/j.eja.2023.126774
- Fernandez E, Mojahid H, Fadón E, Rodrigo J, Ruiz D, Egea JA, Ben Mimoun M, Kodad O, El Yaacoubi A, Ghrab M, Egea J, Benmoussa H, Borgini N, Elloumi O & **Luedeling E.** (2023). Climate change impacts on winter chill in Mediterranean temperate fruit orchards. *Regional Environmental Change*, 23(1), 7. doi: 10.1007/s10113-022-02006-x
- Guo L, Liu X, Alatalo JM, Wang C, Xu J, Yu H, Chen J, Yu Q, Peng C, Dai J & **Luedeling E.** (2023). Climatic drivers and ecological implications of variation in the time interval between leaf-out and flowering. *Current Biology*, S0960982223008497. doi: 10.1016/j.cub.2023.06.064
- Heuschkel Z, Whitney CW & **Luedeling E.** (2023). Shades of sustainability – is there room for a new sustainability label in fruit production? *Acta Horticulturae*, (1380), 11–20. doi: 10.17660/ActaHortic.2023.1380.2
- Luedeling E** & Fernandez E. (2023). Forecasting tree phenology in a climate change context. *Acta Horticulturae*, (1372), 69–78. doi: 10.17660/ActaHortic.2023.1372.10
- Schmitz C, **Luedeling E** & Pariyar S. (2023). Synergism and phytotoxicity: The effects of tank-mix additives on the biological efficacy of Cu²⁺ against *Venturia Inaequalis* and *Podosphaera Leucotricha*. *Annals of Applied Biology*, 182(3), 331–342. doi: 10.1111/aab.12821
- Whitney C, Biber-Freudenberger L & **Luedeling E.** (2023). Decision analytical methods for assessing the efficacy of agroecology interventions. *CABI Agriculture and Bioscience*. doi: 10.1186/s43170-023-00151-9
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