

KIRA PFOCH

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PROFESSIONAL EXPERIENCE AND TRAINING

- Since 2021 **Doctoral Researcher**
at the University of Wisconsin – Madison, Department of Forest and Wildlife Ecology, 1630 Linden Dr., Madison, WI-53706, USA
Global Hotspot of the Wildland-Urban Interface and Changing fire regimes due to WUI growth in Mediterranean landscapes
- 2018 - 2021 **Research Assistant**
at the Humboldt-Universität zu Berlin, Geography Department, Earth Observation Lab, Rudower Chaussee 16, 12489 Berlin, Germany. *Global Satellite-based information for Grassland Management (SattGrün)*
- 2017 - 2018 **Teaching Assistant**
Remote Sensing Courses at the Humboldt-Universität zu Berlin, Geography Department, Earth Observation Lab, Rudower Chaussee 16, 12489 Berlin, Germany.
- 2017 **Internship**
at the Research Center GeoForschungszentrum Potsdam (GFZ), in department 1.4 Remote Sensing and Geoinformatics, Telegrafenberg, 14473 Potsdam, Germany.
- 2017 **Internship**
at Federal Ministry for the Environment, Nature Conservation, Construction and Reactor Safety (Bundesministerium fuer Umwelt, Naturschutz, Bau und Reaktorsicherheit (BMUB)), Stresemannstrasse 128-130, 10117 Berlin, Germany.
- 2017 **Study Project**
at the GeoForschungszentrum (GFZ) in Dendrochronology, Telegrafenberg, 14473 Potsdam, Germany.

EDUCATION

- 2021 **Master of Science in Global Change Geography**
Humboldt Universität zu Berlin, Department of Geography, Rudower Chaussee 16, 12489 Berlin, Germany
- 2020 **Study Exchange Program (ERASMUS)**
Lunds Universitet, Physical Geography and Ecosystem Science, Sölvegatan 12, 22362 Lund, Sweden
- 2017 **Visiting Student**
Technische Universität zu Berlin, Microwave and Radar Remote Sensing, Straße des 17. Juni 135, 10623 Berlin, Germany
- 2018 **Bachelor of Science in Geography**
Humboldt Universität zu Berlin, Department of Geography, Rudower Chaussee 16, 12489 Berlin, Germany

PUBLICATIONS

- Pfoch, Kira A.**, Dirk Pflugmacher, Akpona Okujeni, and Patrick Hostert. "Mapping forest fire severity using bi-temporal unmixing of Sentinel-2 data-Towards a quantitative understanding of fire impacts." *Science of Remote Sensing* (2023): 100097.
- Schug, Franz, Avi Bar-Massada, Amanda R. Carlson, Heather Cox, Todd J. Hawbaker, David Helmers, Patrick Hostert, Dominik Kaim, Neda K. Kasraee, Sebastian Martinuzzi, Miranda H. Mockrin, **Kira A. Pfoch**, Volker C. Radeloff. "The global wildland–urban interface." *Nature* (2023): 1-6.
- Schwieder, Marcel, Maximilian Wesemeyer, David Frantz, **Kira Pfoch**, Stefan Erasmi, Jürgen Pickert, Claas Nendel, and Patrick Hostert. "Mapping grassland mowing events across Germany based on combined Sentinel-2 and Landsat 8 time series." *Remote Sensing of Environment* 269 (2022): 112795.
- Schwieder, Marcel, Marion Buddeberg, Katja Kowalski, **Kira Pfoch**, Julia Bartsch, Heike Bach, Jürgen Pickert, and Patrick Hostert. "Estimating grassland parameters from Sentinel-2: A model comparison study." *PFG–Journal of Photogrammetry, Remote Sensing and Geoinformation Science* 88 (2020): 379-390.

CONFERENCE CONTRIBUTIONS / WORKSHOPS

- Franz Schug, Avi Bar-Massada, Amanda R Carlson, Heather Cox, Todd J. Hawbaker, David Helmers, Patrick Hostert, Dominik Kaim, Neda K Kasraee, Sebastian Martinuzzi, Miranda H Mockrin, **Kira A. Pfoch**, Volker Radeloff (2023): The global wildland-urban interface and wildfires near people, NASA NASA Carbon Cycle & Ecosystems Joint Science Workshop, May 2023
- K. Pfoch, Franz Schug, Volker Radeloff (2022): Mapping the Wildland-Urban Interface in Mediterranean ecoregions with a spectral mixture analysis of Landsat imagery, AGU 2022 (USA)
- Dirk Pflugmacher, Jan Hemmerling, **K. Pfoch**, Akpona Okujeni, Patrick Hostert (2022): Mapping and characterizing forest fires in Central European forests using Sentinel-2 and Landsat time series, ForestSAT 2022 (Germany)
- Marcel Schwieder, David Frantz, **K. Pfoch**, Patrick Hostert (2019): Analysis-Ready-Data for the derivation of grassland information in Germany (GERMAN: Analysis-Ready-Data für die Ableitung von Grünlandinformationen in Deutschland), DLR-Symposium: "Neue Perspektiven der Erdbeobachtung" (Germany)
- K. Pfoch**, Marcel Schwieder, Patrick Hostert (2019): Grassland use intensity metrics from Sentinel-1 and Sentinel-2 data, ESA 9th advanced training course on land remote sensing: agriculture, Louvain-la-Neuve (Belgium)
- Marcel Schwieder, David Frantz, David Loibl, **K. Pfoch**, Patrick Hostert (2019): Grassland use intensity metrics from Sentinel-1 and Sentinel-2 data, ESA Living Planet Symposium 2019, Milan (Italy)

TEACHING

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| 2017 | Tutor / Assistantship, Seminar and Discussion, Introduction to Remote Sensing, B.Sc., Humboldt Universität zu Berlin, Department of Geography, Rudower Chaussee 16, 12489 Berlin, Germany |
| 2018 | Tutor / Assistantship, Seminar and Discussion, Study Project in Remote Sensing: Field surveys and remote sensing - Coupling remote sensing with field data, B.Sc., Humboldt Universität zu Berlin, Department of Geography, Rudower Chaussee 16, 12489 Berlin, Germany |

- 2018 Tutor / Assistantship, Seminar and Discussion, Introduction to Remote Sensing, B.Sc., Humboldt Universität zu Berlin, Department of Geography, Rudower Chaussee 16, 12489 Berlin, Germany
- 2023 Tutor / Assistantship, Seminar, Forest Biometry, B.Sc., University of Wisconsin – Madison, Department of Forest and Wildlife Ecology, 1630 Linden Dr., Madison, WI-53706, USA

AWARDS

- 2023 Hastings Award for an outstanding female student Department of Forest and Wildlife Ecology University of Wisconsin-Madison, USA
- 2019 European Commission Student Grant for attending ESA Living Planet Symposium

LANGUAGE PROFICIENCY

- German native
- English advanced (fluent in writing and speaking)