Craig Frayne

GRADUATE STUDENT & RESEARCHER · UNIVERSITY OF WATERLOO

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| | Universität Bergakademie Freiberg ILTURAL COMMUNICATION | Freiberg, DE 2021 |
|--|--|----------------------|
| DissertationAdvisor: P | n: "Language Games and Nature: A Corpus-Based Analysis of Ecological Discourse" rof. Dr. Michael Hinner nma cum laude | 2021 |
| Technische | Universität Kaiserslautern | Kaiserslautern, DE |
| | ertificate Nanobiotechnology | 2014 |
| Coursewo | rk covering Molecular Biology, Nanostructures, Characterization Techniques, and applications | |
| Bauhaus-U | niversität Weimar | Weimar, DE |
| | nmental Engineering | 2013 |
| | rstems Analysis of Power and Water Cogeneration" rof. Dr. Mark Jentsch | |
| Queen's Un | versity | Kingston, CA |
| BA MATHEMA | · · · · | 2006 |
| • Electives i | n Humanities and Languages | |
| present 2020-2021 2018-2020 2009-2020 | Independent Graduate Research, Geospatial Sensing and Data Intelligence Lab, University of Research Project Manager, Conestoga College Applied Research, Cambridge Ontario Project Manager, DigitalEd, Waterloo Ontario Non-profit and International Development sectors (contract work), various | or waterioo |
| 2016-2018 2015-2016 2007-2009 | Data Analyst, Microsoft Research, Montreal (Maluuba acquisition) Teaching Assistant, Wilfrid Laurier University, Department of Geography & Environmental St Scientific Intern / Project Manager, EPEA Internationale Umweltforschung, Hamburg | udies |
| 2016-2018 2015-2016 2007-2009 | Teaching Assistant , Wilfrid Laurier University, Department of Geography & Environmental St | udies |
| 2016-2018 2015-2016 2007-2009 | Teaching Assistant, Wilfrid Laurier University, Department of Geography & Environmental St Scientific Intern / Project Manager, EPEA Internationale Umweltforschung, Hamburg ONS | udies |
| 2016-2018 2015-2016 2007-2009 Publicat | Teaching Assistant, Wilfrid Laurier University, Department of Geography & Environmental St Scientific Intern / Project Manager, EPEA Internationale Umweltforschung, Hamburg ONS | |
| 2016-2018 2015-2016 2007-2009 Publicat PUBLISHEI Frayne, C. 2 | Teaching Assistant, Wilfrid Laurier University, Department of Geography & Environmental St Scientific Intern / Project Manager, EPEA Internationale Umweltforschung, Hamburg ONS | |
| 2016-2018 2015-2016 2007-2009 Publicat PUBLISHEI Frayne, C. 2 | Teaching Assistant, Wilfrid Laurier University, Department of Geography & Environmental St Scientific Intern / Project Manager, EPEA Internationale Umweltforschung, Hamburg ONS D21. Corpus-based analysis of genetically modified seed discourse. Discourse & Society, 32(6) | 5). |

In Prep

In Review

Education _

Frayne, C. Nonverbals, cognition, and the hidden dimension of environmental communication. (Manuscript in prep.)

Frayne, C. submitted Jan. 2021. Demarcating Cultural expressions in the Dakota Access Pipeline debate. International

Journal of Language and Culture. In Review.

Frayne, C. (2021). Ecology, economy, and communication: From the Ancient Greek οἶκος to the intercultural public sphere. "Communication Science and Linguistics for Business Administration and Management". Peter Lang Publishing. (Book chapter in prep.)

Presentations _____

Frayne, C. 2021. Multilevel Discourse Analysis: A Methodological Response to the Ecological Turn in ICC Research. ICA 2021 - 71st Annual ICA Conference.

Teaching Experience _____

Fall 2015 Atmosphere & Hydrosphere, Teaching Assistant, Wilfrid Laurier University

Winter 2016 Introduction to Environmental Studies, Teaching Assistant, Wilfrid Laurier University Fall 2010 Academic English, University Prep. Course, Instructor, CODEMA Bogota, Colombia

Courseware & Curriculum Development _____

At DigitalEd, managed algorithmic question authoring and conversion of **digital textbooks and online courseware** in STEM disciplines. Included several OpenStax titles, publisher titles (including SAGE, Pearson, Kendall-Hunt), and professors' custom materials.

Freelance development of interactive online learning labs for university professors in the natural sciences.

Freelance research consulting for the Center for Curriculum Redesign (CCR) to identify **international best practices for curriculum resources**.

Outreach & Professional Development _____

PEER REVIEW

Environment, Development and Sustainability (Springer) International Communication Association

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery (ACM)
International Communication Association (ICA)
International Ecolinguistics Association (IEA)
Project Management Institute (PMI)

Skills & Languages _____

Languages: Python, SQL, JavaScript, HTML/CSS, R, Matlab

Human Languages: native English speaker with experience working in French, German, and Spanish language environments

Software Tools: Adobe Creative Suite, Autodesk Fusion, ArcGIS, QGIS **Developer Tools**: Jupyter Notebooks, GitHub, Google Cloud Platform

Libraries: pandas, plotly, numpy, scikit-learn, scipi, d3.js

Certifications: Ecology Conservation & Management (Ducks Unlimited), International Public Sector Accounting Standards

(CIPFA), Project Management Professional (PMI)