Charles Tapley Hoyt, Ph.D.

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I'm working towards building a research group in the Institute of Inorganic Chemistry at RWTH Aachen University focused on software development, data standardization, FAIRification, integration, and applications of ML/AI in the chemical, biological, and health sciences. Therefore, I'm interested in **building academic collaborations** that can lead to grant opportunities and **securing project contracts** for unmet business needs addressed by my semantic technologies, capabilities, and experience.

Interests

Systems and Networks Biology, Cheminformatics, Machine Learning, Knowledge Graphs, Network Representation Learning, Proteochemometrics, Target Prioritization, Drug Repositioning, Pathway Analysis

Work (Recent)

2025– **TBA**, *RWTH Aachen University*, Aachen, Germany.
2023–24 **Senior Scientist**, *Northeastern University*, Boston, MA, USA (remote).
2021–23 **Research Fellow**, *Harvard Medical School*, Boston, MA, USA (remote).
2020 **Computational Biologist**, *Enveda Biosciences*, Boulder, CO, USA (remote).
2018–19 **Lecturer**, *University of Bonn*, Bonn, Germany.
2016–19 **Research Fellow**, *Fraunhofer SCAI*, Sankt Augustin, Germany.

Education

2018–19 **Doctor of Philosophy**, *Computational Life Sciences*, University of Bonn, Germany.
2015–17 **Master of Science**, *Life Science Informatics*, University of Bonn, Germany.
2011–15 **Bachelor of Science**, *Chemistry*, Northeastern University, USA.

Affiliations

2021– International Society of Biocuration (Executive Board 2023-)
2017– OpenBEL Consortium
2011–22 American Chemical Society
2020 CoronaWhy

Spoken Languages

English (Native), German (Limited working proficiency)

Programming Languages

Python, Bash, Fish, R, Java, SQL, SPARQL, Cypher, Javascript, HTML, CSS, XPath, Docker, LaTeX

Projects (Selected)

Bioregistry, *An integrative registry of biological databases, ontologies, and nomenclatures.*
`https://github.com/biopragmatics/bioregistry`

PyKEEN, *Learning, evaluation and applications of knowledge graph embeddings.*
`https://github.com/pykeen/pykeen/`