

# 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– **Wissenschaftlicher Mitarbeiter**, *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,  $\text{\LaTeX}$

## 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/>