Dr Ruth Adeyemi

Postdoctoral Research Associate, Freshwater Ecology

York | 07700 900628 | ruth.adeyemi@example.com

Research profile

Freshwater ecologist measuring whether river restoration brings back the animals it is meant to. Four years as a postdoc on a five-river study; developed an environmental DNA method and the open-source R package streamDNA, now used by three rivers trusts. Six papers, three as first author. Looking for a research fellow post to lead my own project.

Research employment

Postdoctoral Research Associate, ***Department of Biology, Fenmoor University*** **2022–present**

- Designed the sampling for a five-river study of restored and unrestored reaches: 1,240 water samples over three seasons.
- Developed an eDNA method that detects 38 invertebrate families from one litre of water, replacing a day of kick sampling per site.
- Wrote and maintain streamDNA, an open-source R package with a tutorial, used by three rivers trusts and two university groups.
- Ran the sequencing pipeline for three partner groups.
- Parental leave, nine months in 2023; the study was extended by a year.

Education

PhD Freshwater Ecology, on invertebrate recovery after weir removal, ***Rivermead University*** **2018–2022**

BSc (Hons) Biology, First, ***Wexham University*** **2015–2018**

Selected publications

1. Adeyemi, R., Holt, S. and Brennan, M. (2025) 'Environmental DNA and kick samples across restored river reaches', Freshwater Ecology Letters, 12(3). [Fictional reference]
2. Adeyemi, R. and Brennan, M. (2024) 'streamDNA: an R package for invertebrate eDNA surveys', Methods in River Science, 8(1). [Fictional reference]
3. Adeyemi, R. (2022) 'Invertebrate recovery after weir removal', River Research Notes, 30(4). [Fictional reference]
4. Three more as co-author, 2021–2025; full list on request.

Funding and awards

Co-investigator, rivers trust partnership grant, £48,000 **2024 [Fictional award]**

Early Career Researcher Prize, national ecology meeting **2023 [Fictional award]**

Teaching, supervision and service

- Co-supervisor of two PhD students; trained eleven staff and students in eDNA sampling.
- Teach two practical sessions a year on the second-year field course.
- Reviewer for three journals; postdoctoral representative on the department research committee.
- Co-organised a 60-person eDNA workshop in 2025; led six river days for local primary schools.