

# George D. Watson

## Qualifications, memberships, & awards

George D. Watson MPhys (Hons) Ebor, MInstP

### Academic Qualifications

- **PhD Physics**  
*University of York • 2017–2020 (expected)*  
Supervisors: Agnes Noy, Mark Leake
- **MPhys (Hons) Theoretical Physics** (with first-class honours)  
*University of York • 2013–2017*  
Dissertation: “Probing DNA intercalation through targeted molecular dynamics simulation of ellipticine and anthracene-derived ligands”  
Supervisor: Robert Greenall

### Memberships

- **Member**, Institute of Physics (MInstP)

### Awards

- **Best Talk**, Physics Postgraduate Conference 2018  
*University of York • 21 September 2018*  
(Institute of Physics-sponsored prize)

### Talks

#### Internal

- **Physics Postgraduate Conference 2018**  
*University of York • 21 September 2018*  
“Molecular dynamics simulation of supercoiled DNA minicircles”  
(**Winner: Best Talk**)
- Regular Physics of Life Group & Biological Physics Group meetings •  
University of York • 2018–

## Poster Presentations

### External

- **Physics of Life Summer School: New Approaches to Biomolecular structure, dynamics and Function**  
*Durham University • 16–20 July 2018*  
“Atomistic simulation of DNA supercoiling”

### Internal

- **BPSI Summer Symposium 2018: Business as Usual?**  
*University of York • 28 June 2018*  
“The influence of DNA topology on IHF-DNA interaction unveiled by atomic simulations”
- **BPSI Spring Symposium 2018: Digital Healthcare**  
*University of York • 20 March 2018*  
“Atomistic simulation of DNA supercoiling”

## Other Conferences Attended

- **The Physics of Microorganisms II**  
*Institute of Physics • 8 April 2019*

## Teaching

- **Advanced Computational Laboratory** (practical demonstration)  
*University of York • 2018–*  
Supervise, guide, and assist students developing various programs for physical simulation, primarily in Fortran 90, during third-year computational laboratory; led an experiment in single-particle plasma simulation, which included giving a short introductory lecture
- **Molecular Simulation** (practical demonstration)  
*University of York • 2018*  
Provided support and assistance to third-year students during molecular dynamics workshop sessions

## Outreach

- **York Researchers' Night (YorNight)**

*University of York • November 2018*

“Meet Your Molecules in VR”

Performed interactive VR demonstrations of biological molecules and 3D visualisation techniques in biophysics to members of the public of various ages and backgrounds at a well attended event

Event webpage

## Administration

- Responsible for redesigning and maintaining the Physics of Life Group website and @PhysLifeYork Twitter account.

George D. Watson MPhys (Hons) MInstP

P/C/013, Department of Physics, University of York, York, YO10 5DD

george.watson@york.ac.uk • <https://georgewatson.me>