

Jonathan Fay

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 Nationality : *British*
 Date of Birth : *30 September, 1997*

**CAREER OBJECTIVE**

To contribute to humanity's understanding of the laws of nature and their origin by bringing greater historical awareness to contemporary practice in physics and deeper knowledge of science to philosophical investigations.

SKILLS

- **Languages** - English(Native), French(Proficient), German(Beginner)
- **Software** - \LaTeX , Word, PPT, Excel, JavaScript(Intermediate), Python(Beginner)
- **Archival Research & Translation** - Experienced in navigating online archives and libraries, networking with researchers, & finding obscure texts. Translated passages from French, German & Latin (with tech help).
- **Leadership & Communication** - Founded & run two reading groups, Founded a chess club, Dodgeball team player (Lancaster), Tutored in a school (7 months, Oxford), Tutored maths on weekends.

ACADEMIC DETAILS

Qualification	Specialization	Institution	Year	Grade
<u>PhD</u>	Philosophy of Gravitation	University of Bristol	ongoing	—
<u>MA</u>	Philosophy of Physics	University of Bristol	2021	Distinction
<u>MSci</u>	Natural Sciences/Physics	Lancaster University	2019	2:1, 1st(project)
<u>School</u>	General	EEB1, Brussels	2015	85%

FIELDS OF INTEREST

History of General Relativity, Philosophy of Space and Time, Theories of Gravity

PUBLICATIONS

- [1] J. Fay. *Delboeuf's forgotten contribution to the 19th century problem of space*. Forthcoming.
 [2] J. Fay. "Mach's principle and Mach's hypotheses". In: *Studies in History and Philosophy of Science* 103 (2024).

RELEVANT RESEARCH PROJECTS & WORK EXPERIENCE

N ^o	Project Title	Location	Description	Year
1	Dennis Sciama and Machian theories in the 20th Century	Bristol	Research on the history and mathematical structure of Machian gravity models in 20th C.	ongoing
2	Physical and methodological concepts of space	Bristol	Investigating dual role (methodological and physical) of space & spacetime concepts since Newton	ongoing
3	Poincaré's foundations of science	Online	Collaborating w/ Julian Barbour & others to identify fruitful ideas in Poincaré's works	ongoing
4	Joseph Delboeuf & the 19th Century problem of space	Bristol	Historical research on foundations of geometry, specifically Delboeuf's neglected contribution	2023
5	Mach's principle and Mach's hypotheses	Bristol	Historical research on Mach's principle & role of causation	2023
6	Intervention Tutor	Oxford(TOA)	Taught maths to small classes of ≈ 8 students	2022
7	Poincaré's structural empiricism	Bristol	Research on Poincaré's structuralism in light of passages from <i>The Value of Science</i>	2021
8	MSci Project: Oceanic Rogue Waves	Lancaster	Time series analysis of wave-tank data to probe influence of <i>seiches</i> on prevalence of rogue waves	2019
9	Hydrodynamics of liquid metal reactors	Brussels (VKI)	Short Training Program - performing and analysing PIV experiments of fluid flow	2018

STRENGTHS

- Passionate about subject
- Outgoing
- Willing to learn new things
- Persistent & ambitious

OTHER INTEREST AND HOBBIES

- **Sport** - Dodgeball, Hiking, Bouldering & Skiing
- **Music** - Performed flute internationally with school orchestra, Produced original songs (electronic)
- **Chess** - 1500 rapid (chess.com), Founded club in a school (2022)
- **Nutrition** - Wide knowledge, Informal nutritionist for many friends and family members

DECLARATION

I hereby declare that the details furnished above are true and correct to the best of my knowledge. In case any of the above information is found to be false or untrue or misleading or misrepresenting, I am aware that I may be held liable for it.

Place: *Bristol, England*

Date: *December 7, 2023*



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