

Abhimanyu Pallavi Sudhir

AI researcher working on program markets in the context of AI and bounded rationality.

Education

- University of Warwick · PhD Computer Science · 2022-26 – supervisor: Long-Tran-Thanh
- Imperial College London · MSci Mathematics · 2018-22 – 1st class honors

Internships

- Goldman Sachs · AI Research Intern · Jan-Aug 2021

Publications

- Abhimanyu Pallavi Sudhir and Long-Tran Thanh (2024), “Betting on what is neither verifiable nor falsifiable”, arxiv.org/abs/2402.14021
- Abhimanyu Pallavi Sudhir (2021), “A mathematical definition of property rights in a Debreu economy”, arxiv.org/abs/2107.09651

Archived pure math work: see [Google Scholar](#) or [extended CV](#).

Ongoing collaborations

- *Consistency checks for forecasting* with Daniel Paleka et al (2024) · Berkeley Supervised Program for Alignment Research (SPAR)

Academic service

- *Teaching Assistant for CS141: Functional Programming (Warwick)* · 2023
- *Reviewer for Advances in Applied Clifford Algebras (Springer)* · 2020

Workshops and courses

- *Co-operative AI Foundation* · Jul 2023 · workshop on AI and cooperative game theory

Pet projects

- *The Winding Number* · 2016-2023 · Personal academic blog; sample articles [\[1\]](#) [\[2\]](#) [\[3\]](#) [\[4\]](#)

Write-ups and talks

- *Betting on what is not verifiable nor falsifiable* · 2023 · PhD
 - Annual Report [\[pdf\]](#)
 - Warwick Postgraduate colloquium (Dec 2023) & Warwick Cake Talk (Nov 2023) [\[ppt\]](#)
- *Bounded rationality and such* · 2022-23 · PhD
 - “Algorithmic information is at the root of all our problems”, Warwick Postgraduate colloquium (Mar 2023) [\[ppt\]](#)
 - “Incompleteness theorems and firing philosophers”, Warwick Cake Talk (Feb 2023) [\[ppt\]](#)
 - PhD proposal [\[pdf\]](#)
- *When does equivariant learning make sense?* · 2021-22 · final-year project with Jeroen Lamb
- *A mathematical definition of property rights* · 2021
 - Imperial Undergraduate Colloquium (Feb 2022)
 - Sheffield SIAM-IMA Applied Math Conference (July 2021) [\[ppt\]](#)
- *Local normal forms of analytical maps near fixed points* · 2020 · group report and presentation
- *Lie theory: the topology of groups* · 2019 · UROP reading project with Richard Thomas
 - Warwick-Imperial Autumn Meeting (Mar 2022) [cancelled due to COVID-19 lockdowns]
 - Imperial Undergraduate Colloquium (Oct 2019) [\[report\]](#) [\[ppt\]](#)
 - Imperial 3-minute thesis competition (Oct 2019)
- *Ultraproducts and hyperreals* · 2018-19 · computerized formal proving with Kevin Buzzard
 - Files in the Lean math library on Github, ≈ 1500 loc [\[hyperreal\]](#) [\[ultraproduct\]](#) [\[germ\]](#)
 - Formalization of college math exams [\[announcement post\]](#)
 - Poster presentation (Jun 2019) [\[poster\]](#)

Links

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- Websites: [\[TheWindingNumber.blogspot\]](#) [\[Homepage\]](#)
- Profiles: [\[StackExchange\]](#) [\[LessWrong\]](#) [\[LinkedIn\]](#) [\[Scholar\]](#) [\[ORCID\]](#)