William Stafford

Department of Mathematics
University of Bristol
Fry Building
Bristol
BS8 1UG

will.stafford@bristol.ac.uk
willstafford.info
+44 7895 688 414

AOS: Philosophy of mathematics and logic, Philosophy of computation, Philosophy of language
AOC: Philosophy of AI, History of analytic philosophy, Rational choice theory

Education

2017-21 PhD in Philosophy, University of California, Irvine

Advisors: Sean Walsh and Kai Wehmeier   Committee: Toby Meadows

Title: *Something Valid This Way Comes: A Study of Neologicism and Proof-Theoretic Validity*

2015-17 MA in Philosophy, University of California, Irvine

2013-15 MPhil in Philosophy, University of Warwick

Thesis: *Logicism and Internal Categoricity*

Advisor: Walter Dean   Examiners: Guy Longworth, Sean Walsh

Topics: Mathematical Logic (Dean), Philosophy of Language (Longworth), Kant (Cassam)

2009-13 BA (Hons) in Philosophy, University of Stirling (First class)

Appointments

2022-24 Marie Skłodowska-Curie Actions Postdoctoral Researcher University of Bristol, UK

Project: *Truth in Proof-Theoretic Semantics*

2021-22 Postdoctoral Researcher Institute of Philosophy, Czech Academy of Sciences, Czech Republic

Project: *Meaningful Formalism: A Philosophy of Mathematics for Type Theory*

F20,Su-F19 Teaching Associate University of California, Irvine, USA

Publications

Peer Reviewed Articles

Stafford, W. The Potential in Frege's Theorem. *Review of Symbolic Logic* 1-25 (2020 online).

Stafford, W. Proof-Theoretic Semantics and Inquisitive Logic. *J Philos Logic* **50**, 1199–1229 (2021).

Stafford, W. The Decidability of Proof-Theoretic Validity. *The Logica Yearbook 2021* M. Blicha and I. Sedlar (eds), College Publications, London, (2022).

Stafford, W and Nascimento, V. Following all the rules: Intuitionistic completeness for generalised proof-theoretic validity. *Analysis* 2023 Online.

Arana, A. and Stafford, W. On the difficulty of discovering mathematical proofs. *Synthese* 2023.

Stafford, W. Proof-Theoretic Validity isn't Intuitionistic; So What? *Australasian Journal of Philosophy* Forthcoming.

BOOK REVIEWS

Stafford, W. Review of Neil Tennant's "The Logic of Numbers". *Notre Dame Philosophical Reviews* 2023.https://ndpr.nd.edu/reviews/the-logic-of-number/

Works in Progress

Drafts available on request or at willstafford.info/manuscripts.

Analyticity of Logic and Proof-Theoretic Semantics

The Untyped λ-Calculus as a Foundation for Natural Language Semantics

Is Arithmetic Logical According to Proof-Theoretic Semantics?

Is Concatenation Arithmetic?; A Theory of Theory Identity

The Failure of Compositionality in Proof-Theoretic Semantics for Grammar

Prizes and Awards

2020-21	*LPS Service Award*-Award recognising outstanding service to department and its graduate program.
2020	*A. Kimball Romney Award for Outstanding Graduate Paper*
2013	*Murray MacBeath Prize*- Awarded for achieving the best First Class Honours performance in Philosophy

Fellowships and Scholarships

2022-24	*Marie Skłodowska-Curie Actions Postdoctoral Fellowship*
Winter 2021	*Werner Fellowship*-Prestigious fellowship from estate of Christian Werner funding research pursuits of the UCI Social Science's top graduate students
Spring 2020	*Otto W. Shaler Scholarship*- Financial support to international graduate students who demonstrate outstanding past academic achievement as well as future promise
W20,S19,W18	*Associate Dean Fellowship*
2015-21	*School of Social Sciences Merit Fellowship*
2013-15	*Arts and Humanities Research Council Research preparation masters studentship*

Talks

Invited talks are marked with a *.

Sept 2023	*Symposium on Proof-Theoretic Semantics: Prague
	Dummett's Fundamental Assumption in Light of Recent Results
July 2022	Proof Society Summer School and Workshop 2023: Barcelona
	The Proof-Theoretic Criteria of Logic and the Logicality of Arithmetic
June 2023	*Logic and Epistemology Colloquim: Bochum
	Is arithmetic logical according to the proof theoretic criteria?
June 2023	Logica 2023: Teplá
	The untyped lambda calculus and natural language semantics

Nov 2022	*Bristol Philosophy Colloquim: Bristol
	Is arithmetic analytic?
Nov 2022	Proof Society Autumn School and Workshop 2022: Ultrech
	Is the Proof-Theoretically Valid Logic Intuitionistic?
Oct 2022	*Logic and Set Theory Seminar: Bristol
	Is the Proof-Theoretically Valid Logic Intuitionistic?
Sept 2022	*Formalization in Logic, Language, and Mathematics Conference: Nancy
	Is the Proof-Theoretically Valid Logic Intuitionistic?
Sept 2022	*FFIUM Project Closing Workshop: Munich
	Is the Proof-Theoretically Valid Logic Intuitionistic?
Sept 2022	PhDs in Logic: Turin
	Proof-Theoretic Validity and Intuitionistic Logic
June 2022	Postgraduate Session of the Joint Session of the Aristotelian Society and Mind: St. Andrews
	Following all the rules; Intuitionistic completeness for generalised proof-theoretic validity
Dec 2021	The 3rd Workshop on Proof Theory and its Applications: Fuchal
	Decidability and Finitary Character of Proof-Theoretic Validity
Sep 2021	Logica 2021: Hejnice
	Decidability and Finitary Character of Proof-Theoretic Validity
July 2021	Association of Symbolic Logic European Summer Meeting (Logic Colloquium): online/Poznań
	Completeness of intuitionistic logic for generalised proof-theoretic semantics
June 2021	Australasian Association of Logic 2021: online
	Analyticity of Logic and Proof-Theoretic Semantics
Apr 2021	*Logic Super Group: online
	In Defence of Proof-Theoretic Semantics
Apr 2021	APA Pacific Division: online
	Frege's Theorem and the Potential Infinite
Feb 2021	*Seminars of the Department of Logic, Czech Academy of Sciences: online
	In Defence of Proof-Theoretic Semantics
Nov 2020	Midwest PhilMath Workshop: online
	Genus as a Measure of Complexity of Proof
July 2020	*MCMP Colloquium in Mathematical Philosophy: Logic and Language: online
	The Logic of Proof-Theoretic Validity
July 2020	*Orange County and Inland Empire History and Philosophy of Mathematics and Logic: online
	The Logic of Proof-Theoretic Validity
Mar 2019	Third Tübingen Conference on Proof-Theoretic Semantics: Tübingen
	An Inquisitive Proof-Theoretic Semantics
July 2018	Association of Symbolic Logic European Summer Meeting (Logic Colloquium): Udine
	An Analysis of Property Theory with Currying Types as an Intensional Semantics
Aug 2017	Association of Symbolic Logic European Summer Meeting (Logic Colloquium): Stockholm
	Genus as a Measure of Complexity of Proof
July 2016	Association of Symbolic Logic European Summer Meeting (Logic Colloquium): Leeds
	The Modal Analogue of Frege's Theorem

Teaching

Instructor, UCI: Critical Reasoning, Making of Modern Science, Introduction to Logic

Teaching Assistant, UCI: Metalogic, Making of Modern Science, Naturalised Epistemology, Introduction to Symbolic Logic, Introduction to Inductive Logic, Introduction to Linguistics (within Language Sciences), Introduction to Psychology (within Psychology)

Teaching Assistant, Warwick: Introduction to Logic

Guest Lecturing Martin-Löf Type Theory, joint upper division and graduate course by Sean Walsh at UCI, topic: Heyting arithmetic and MLTT, December 2018

Philosophy, Science, and Mathematics, upper-level core seminar for student, majors by Hannah Rubin at University of Notre Dame, topic: Paperfolding, Proof Purity, and Euclidean Geometric Content (with Mike Schneider), October 2021

Supervision Master Project, University of Bristol, *Can Brandom's Inferentialism Account for Compositionality and Communication?*

Professional Service

2018-19   Graduate Representative for the Department of Logic and Philosophy of Science, UCI

Public Outreach

2021   Co-organiser WonderPhilosophy - workshop on graduate school applications for first-generation students

2019   Ask a Philosopher - booths in public places where anyone can discuss philosophical questions

2014-15   Philosophy in Schools, The Philosophy Foundation - guided discussions in schools