

James Benn

Technical Writer & Researcher



About me

I like lots of different problems and challenges.

Personal

James Benn
nationality: New Zealand
1987

Soft skills

A curious and patient listener
• Very strong written communication and presentation skills
• A diplomat who leads by giving people what they need to perform
• Surprisingly entertaining... at times.

Professional Interests

I'm a technical writer and research scientist working in mathematics, statistics and software for industry. I'm interested in statistics and mathematics for both civil, and software, engineering, and producing and maintaining technical documentation of all kinds.

Areas of specialization

Mathematics • Statistics for Medical Shape & Image Analysis • SP and Quality Control for Manufacturing
• Software for Civil Engineering Applications
• Technical Writing • Research
• Teaching • Supervision

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@ Personal Website

Iksiri

RESUMÉ

2020-now	Research Scientist INRIA · France	
2019-2020	Senior Claims Analyst MINISTRY FOR PRIMARY INDUSTRIES · New Zealand	
2018	Visiting Researcher BU-ALI-SINA UNIVERSITY & GOETHE UNIVERSITY · Iran & Germany	
2018	Construction & Maintenance Quality Control Analyst HIGGINS CONSTRUCTION · New Zealand	
2016-2017	Postdoctoral Researcher and Lecturer MASSEY UNIVERSITY · New Zealand	
2015-2016	Statistical Consultant MID-CENTRAL DISTRICT HEALTH BOARD · New Zealand	

DEGREES

2015	PhD Mathematics UNIVERSITY OF NOTRE DAME · IN, USA	
2012	M.A. Mathematics UNIVERSITY OF NOTRE DAME · IN, USA	
2009	BlnfSc Mathematics and Statistics MASSEY UNIVERSITY · New Zealand	

PRESENTATIONS

May. 2024	"Right-Invariant Geometry of Lie Groups", at: <i>Geometric Sciences in Action</i> CIRM, Marseille, France.
Mar 2023	"Conjugate Points on $\mathcal{D}_\mu(S^2)$; but what are they really?", at: <i>Maynooth University</i> Ireland.
Nov 2021	"The Measurement and Analysis of Shapes", at: <i>Universite Paris 1 (Pantheon Sorbonne)</i> , SAMM Seminar Paris, France

PROGRAMMING



RECENT PUBLICATIONS

2024	with S. Marsland, <i>Delta-type 1-Forms and Knots as Weak Coadjoint Orbits</i> (in preparation)
2024	with J. Harrison, <i>Improving Neural Network Surface Processing with Principal Curvatures</i>
2023	with M. Pederson, <i>Principal Subbundles for Dimension Reduction</i>
2022	with S. Marsland, <i>A Setting for the Measurement and Analysis of Shape</i>
2021	<i>Conjugate Points on $\mathcal{D}_\mu(S^2)$</i>