# James **Benn**

Technical Writer & Researcher



## About me

I like lots of different problems and challenges.

#### Personal

James Benn nationality: New Zealand 1987

#### Soft skills

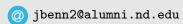
A curious and patient listener · Very strong written communication and presentation skills · A diplomat who leads by giving people what they need to perform · Surprisingly entertaining... at times.

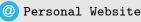
## **Professional Interests**

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







# Resumé

**Research Scientist** 2020-now

INRIA · France 9



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 🏦



BInfSc Mathematics and 2009

**Statistics** 

Massey University · New Zealand m



## Programming



## **PRESENTATIONS**

May. 2024 "Right-Invariant Geometry of Lie Groups", at: Geomet-

ric Sciences in Action CIRM, Marseille. France.

Mar 2023 Points "Conjugate on  $\mathcal{D}_{\mu}(S^2)$ ; but what are they really?", at: Maynooth

Nov 2021 "The Measurement and Analysis of Shapes", at:

University Ireland.

Universite Paris 1 (Pantheon Sorbonne). SAMM Seminar Paris, France

# RECENT PUBLICATIONS

2024 with S. Marsland, Delta-type 1-Forms and Knots as Weak Coadjoint Orbits (in preparation)

2024 with J. Harrison, Improving Neural Network Surface Processing with Principal Curvatures

with M. Pederson, Principal 2023 Subbundles for Dimension Reduction

2022 with S. Marsland, A Setting for the Measurement and Analysis of Shape

2021 Conjugate Points on  $\mathcal{D}_{\mu}\left(S^{2}\right)$