# Dr Gary Beane

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## PROFESSIONAL SUMMARY

Senior Data Scientist and Technical Consultant with 11+ years of experience in experimental physics, analytics, and stakeholder engagement. Proven ability to lead cross-functional teams, deliver strategic insights, and drive transformation through data. Creator of pyTMat, a high-performance modeling tool, and experienced in regulated environments. Strong communicator with a track record of leadership and interdisciplinary collaboration. Ready to deliver impact in consulting engagements across energy, public sector, and advanced industries.

## KEY SKILLS

- Strategic Analysis & Problem Solving
- Data Science & Machine Learning (Python, Rust, SQL)
- Stakeholder Engagement & Communication
- Project Leadership & Agile Collaboration
- Technical Consulting & Product Development
- Scientific Computing & Visualization

## SELECTED ACHIEVEMENTS

- Developed pyTMat, a high-performance optical modeling tool used in device analytics.
- Led design and build of ultrafast spectroscopy lab; automated data pipelines and delivered reproducible workflows.
- Consulted for biomedical startup; improved sensor design accuracy by 25%.
- Chaired Faculty of Science Early Career Network; supervised 10+ students across disciplines.

## EDUCATION

- PhD, Materials Science – University of Melbourne
- BSc (Hons), Chemistry – University of Melbourne
- BSc, Chemistry / Mathematical Physics / Political Science – University of Melbourne

## CERTIFICATIONS

- Google Advanced Data Analytics Certificate
- Ubuntu Linux Professional Certificate

## PUBLICATIONS & PORTFOLIO

- 17+ peer-reviewed publications | 1000+ citations

◈ GitHub: github.com/gbeane66

◈ Website: garybeane.com