

# Research Skills

---

DR. MARKUS HOFMANN



# Aim and Objectives

---

Assist you during your research project

- Proposal writing
- Literature writing
- Writing tools
- Critical analysis
- Statistical analysis

Prepare you for potential commercialisation of your project

- Patents
- Intellectual property
- Entrepreneurship

# Workshops

---

## Session 1: Proposal Writing

- introduction to research, undertaking a research project, project planning, writing a proposal

## Session 2: Word Processing

- LaTeX markup language

## Session 3: Literature Review

- evaluation and reviewing, deep vs shallow, sourcing good material, referencing etc.

## Session 4: Technical Writing

- core elements, citations, bibliography

## Session 5: Poster Presentation

- Presentations, research methodologies, critical thinking, creative thinking, Ethics, time management

# Workshops

---

Session 6: Document Structure

Session 7: Statistics 1 (Descriptive)

Session 8: Statistic 2 (Inferential)

Session 9: Statistic 3 (Inferential)

Session 10: Commercialisation

- intellectual property, patent searches etc.

Session 11: Entrepreneurship

# Assignments

---

- Assignment 1: Research Proposal and Project Plan (15%)
- Assignment 2: Proposal in LaTeX (15%)
- Assignment 3: Literature Review and Bibliography, Technical Writing (25%)
- Assignment 4: Create Document Structure of Thesis in Latex (15%)
- Assignment 5: Statistics Exercises (20%)
- Assignment 6: Presentation Poster (10%)

# Moodle

---

Enrolment key: rs2015

# A few things about me

---

Certificate in Business and IT (German University)

BA in Management Information Systems - GMIT

MSc Computing (IT for Strategic Management) - DIT

PgD in Statistics – TCD

PhD – TCD

Certificate in Enquiry Based Learning – ITB

Research Interests: Data Mining, Business Intelligence, E-Learning, Virtual Learning Environments

Married, three boys (4, 6 and 8)

Other interests: Kite surfing, Skiing, Mountaineering, working with start-ups



# Contact Us

---

Email: [markus.hofmann@itb.ie](mailto:markus.hofmann@itb.ie) (preferred option)

Phone: 01 885 1553

Room: E039

Connect via LinkedIn: <http://www.linkedin.com/in/markushofmann>