

Nicholas Spyrison

Curriculum Vitae
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Education

2018–2021 *Ph.D. Informaiton Technology* Monash University, Clayton, VIC, AUS
Thesis: New Tools for User-guided Exploration of Linear Projections
2008–2012 *B.Sc. Statistics* Iowa State University, Ames, IA, USA
Minors: physics and mathematics

Employment

2020–2020 Teaching assistant, data exploration and visualisation – Monash University
2018–2018 Research officer, Human geology – Monash University
2019–2019 Teaching assistant, business and economic statistics – Monash University
2018–2019 Research officer, Criminology – Monash University
2016–2018 **Business Intelligence Developer** – CPI Card Group Inc.
T-SQL - 2012 (SSMS, SSRS), R language, GitHub, Crystal Reports, Oracle BICS, Excel

- Supply chain reporting leading to more than \$4 M USD cost reduction
- T-SQL development – mid-high level abstraction
- 4 reporting tools across multiple db instances

2015–2016 **Business Intelligence Developer** – United Dominion Realty Trust Inc. (UDR)
T-SQL - 2012 & 2016 (SSMS, SSRS, SSAS - MOLAP Cube), PowerBI, WebFOCUS – 8.0+, Excel

- T-SQL development – high level abstraction
- 3 reporting tools across several db instances
- On-call for enterprize-wide ETL process

2014–2015 **Business Intelligence Analyst** – Heartland Financial USA Inc.
WebFOCUS – 8.0+, Excel

- T-SQL development – high level abstraction

2014–2014 **Laboratory Technician** – The Ames Laboratory & Iowa State University
CAD Inventor, LabVIEW, Excel

2013–2014 **Delivery Analyst** – International Business Machines Cooperation (IBM)
Excel, VBA, R language

- Weekly metric/KPI presentations to lower and mid managment
- IBM's process improvement methodology, root cause analysis, process behavior analysis
- Weekly metric/KPI presentations to lower and mid managment
- ETL scripting in VBA for greater than 1 FTE savings across the team

2012–2012 **User Interface Developer** – Iowa State University
R language, GitHub, Linux Shell

2010–2012 **Laboratory Technician** – The Ames Laboratory & Iowa State University
CAD Inventor, LabVIEW, LaTeX, Excel

2009–2009 **Physics Tutor** – Iowa State University

- Classical physics I & II with calculus

Honors and awards

2018 ACEMS Impact and Engagement Award
2018 UseR 2018! Datathon, third place
2012 LOOK UP ISU AWARDS AND HONORS HERE – SEVERAL
2009 LOOK UP ISU AWARDS AND HONORS HERE – SEVERAL
2008 American Legion award

Research

- High dimensional visualization via linear projections
 - Between 2018 and 2021 (expected) I researched high dimensional visualization espically trough animates across changing bases with various vizualization tours

- One Accepted publication, one R package publication
- Another 3 publications in the pipeline
- Consensus matter physics (CMP),
 - Between 2009 and 2014 I researched pnictide superconductors (iron-based, type II superconductors)
 - 6 publications across various compositions and dopings
 - Drafting and fabrication of fabricated tunnel-diode resonators with 0.01ppm sensitivity for contact resistivity measurements
 - Cryogenic application up to and including including vacuum turbo-pumped, He3 systems

Membership

- Australian Centre of Excellence for Mathematical and Statistical Frontiers (ACEMS)
- Statistical Society of Australia (SSA), Victorian branch
- American Statistical Association, district 4
- Melbourne Users of R Network (MelbURN)
- Denver R User Group
- Server SQL Server User Group
- R-Ladies Melbourne
- Not so standard deviations (R podcast)
- The R-podcast
- Credibly Curious(R podcast)

Publications

PhD thesis

Research papers

Software (R packages)

Presentations

Research papers, physics

Presentations, physics