**Nicholas Spyrison**

*curriculum vitae*

[Image result for github icon](https://github.com/nspyrison)[**GitHub**](https://github.com/nspyrison) **–** [Image result for google scholar icon](https://scholar.google.com.au/citations?user=zzM9WVEAAAAJ&hl=en)[**Google Scholar**](https://scholar.google.com.au/citations?user=zzM9WVEAAAAJ&hl=en) **–** [http://mattmwalsh.com/index/Images/official_logo_linkedin.png](http://www.linkedin.com/in/nspyrison)[**LinkedIn**](http://www.linkedin.com/in/nspyrison)

[**spyrison@gmail.com**](mailto:spyrison@gmail.com)

**Education Monash University – Clayton, VIC. Australia** **Feb 2018 – Feb 2021**

*Ph.D. Information Technology (expected)*

Thesis: *New tools user-guided exploration of linear projections*

**Iowa State University – Ames, Iowa. USA** Aug **2008– May 2012**

*B.Sc. Statistics*

Minors: physics and mathematics

|  |  |
| --- | --- |
| Kaizen (continuous improvement) | Challenge *de facto* thinking |
| Transparency | Reproducibility |

**Philosophy**

|  |  |
| --- | --- |
| R Stats | Git |
| LaTeX | T-SQL– 2012 & 2016 (SSMS, SSRS) |

**Software**

**experience Business Intelligence Developer Dec 2016 – Jan 2018  
*CPI Card Group Inc.****T-SQL Stack – 2012 (SSMS, SSRS), R stats, GitHub, Crystal Reports, Oracle BICS, Excel*

* Mid-high abstraction level T-SQL development
* Database reporting, across 4 platforms
* Supply chain report leading to more than $4M USD cost reduction

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

* High abstraction T-SQL development
* Database reporting
* On-call for ETL process

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

* Database reporting

**Laboratory TechnicianMay 2014 – Aug 2014  
*The Ames Laboratory & Iowa State University; the Department of Physics & Astronomy****CAD Inventor, LabVIEW, Excel*

*(continued)* **Delivery Analyst** **Feb 2013 – May 2014  
*International Business Machines Corporation (IBM)****Excel, VBA, R stats*

* + - * Weekly metrics presentations and reporting
      * IBM’s Lean/Six Sigma (GDF), root cause analysis, process behavior analysis
      * ETL scripting in VBA for greater than 1 FTE savings across the team

**GUI Developer** **Jan 2012 – May 2012  
*Iowa State University; the Department of Statistics****R, Linux Shell, GitHub*

**Laboratory Technician** **Jan 2010 – Aug 2012  
*The Ames Laboratory & Iowa State University; the Department of Physics & Astronomy****CAD Inventor, LabVIEW, LaTeX, Excel*

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

* Classical physics I & II

**Publications** *Competition between superconductivity and magnetic/nematic order as a source*

*of anisotropic superconducting gap in underdoped Bax-1KxFe2As2*

H. Kim *et al.* Phys. Rev. B **90**, 014517 (2014) [arXiv Link](http://arxiv.org/pdf/1406.2369.pdf)

*Interplane resistivity of underdoped single crystals (Ba1–xKx)Fe2As2, 0≤ x ≤ 0.34*

M. A. Tanatar *et al.* Phys. Rev. B **89**, 144514 (2014) [arXiv Link](http://arxiv.org/pdf/1404.3664.pdf)

*Noncontact technique for measuring the electrical resistivity and*

*magnetic susceptibility of electrostatically levitated materials*

G. E. Rustan *et al.* Rev. Sci. Instrum. **83**, 103907 (2012) [ISU Link](http://cmp.physics.iastate.edu/esl/Published%20Work%20PDFs/noncontact.pdf)

*Anisotropic resistivity of Na1–δFe1–xCoxAs*

N. S. Sprysion *et al*. Phys. Rev. B **86**, 144528 (2012) [arXiv Link](http://arxiv.org/pdf/1208.3646.pdf)

*Doping-dependent anisotropic superconducting gap in Na1–δ(Fe1–xCox)As*

K. Cho *et al.* Phys. Rev. B **86**, 020508 (2012) [arXiv Link](http://arxiv.org/pdf/1201.2966.pdf)

*Evolution of normal and superconducting properties of single crystals*

*of Na1–δFeAs upon interaction with the environment*

M. A. Tanatar *et al.* Phys. Rev. B **85**, 014510 (2012) [arXiv Link](http://arxiv.org/pdf/1110.0138.pdf)

**Presentations** Spyrison, N. S. “spinifex: Visualizing local structure of higher dimensions.”

useR! 2018. Brisbane NSW, Australia. July 2018. Digital Conference Poster. [GitHub Link](https://nspyrison.github.io/user2018/spinifex_useR2018.html)

Spyrison, N. S. “Oxidative deintercalation of single crystal Na1-δFeAs upon

interaction with the environment.*”* American Physics Society March

Meeting. Boston, MA. March 2012. Conference Presentation. [APS Abstract Link](http://absimage.aps.org/image/MAR12/MWS_MAR12-2011-001411.pdf)

Spyrison, N. S. “Development of a contactless resistivity measurement for

electrostatically levitated molten metals.”American Physics Society

March Meeting. Dallas, TX. March 2011. Conference Presentation. [APS Abstract Link](http://absimage.aps.org/image/MAR11/MWS_MAR11-2010-001055.pdf)

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