Dr Robert Turnbull

Senior Research Data Specialist

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7 rbturnbull

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Employment

Senior Research Data Specialist

University of Melbourne

2020-present

Robert currently works at the Melbourne Data Analytics Platform (MDAP). He has been a lead contributor to projects in metagenomics, digital humanities, biosecurity, architectural history, and the archaeology of the Plain of Jars (Laos). He was also the project coordinator for the University of Melbourne's 'Living with COVID' social media campaign. He was promoted to Senior Research Data Specialist in September 2023.

Research Assistant and Tutor

Australian Catholic University and Ridley College

2019-2020

Robert worked as the research assistant for Michael Theophilos (ACU) designing a framework in Django for lexicographic analysis of ancient coin inscriptions. He worked as a research assistant for Brian Rosner (Ridley College). They are co-authoring a chapter on the textual history of 1 Corinthians and a journal article using phylogenetics to analyse the manuscript tradition of the Pauline corpus. Robert tutored in the subject 'Introduction to the Bible' in 2019 and 2020, receiving strongly positive assessment from the students.

Mobile App Developer

able 2011-present

Robert has several mobile apps available for download on iOS and Android: Vocab Pro, Mesha, Bible Vocab, and Film Note. These apps have been downloaded over 150,000 times. Bible Vocab is widely regarded as one of the premier biblical language apps available. In 2021, he finished work on a mobile app for the Freie Universität Berlin (funded by the European Union's Erasmus+ Programme) to teach the Surayt-Aramaic language. He is currently developing applications for learning vocabulary from the Qurān, the Peshitta, and the Arabic Bible.

Education

Doctor of Philosophy

Australian College of Theology (Ridley)

2017-2021

Thesis title: The Textual History of Codex Sinaiticus Arabicus and its Family

Intensive Course on Pre-Islamic Arabia
Princeton University

2018

Master of Divinity

Australian College of Theology (Ridley)

2010-2016

GPA: 3.83/4

Bachelor of Science (Scholars)

Monash University

2001-2003

Majors: Mathematics and Astrophysics

VCE

Scotch College

2000

ENTER: 99.70

Software Engineer & Technical Support Officer

Peace Dove Club for the Deaf



Amman, Jordan

Robert worked as a technical support officer for the Peace Dove Club for the Deaf in Amman, Jordan. In this role he developed custom video editing software, provided computer training, undertook strategic planning and liaised with outside groups. This required fluency in Arabic and sign language.

Research Software Engineer

Monash University



Robert worked as a lead programmer at Monash Cluster Computing (directed by Louis Moresi) developing the geodynamics modelling framework known as *Underworld* and the 3D visualisation framework known as *gLucifer*.

Publications

All works below have passed peer-review.

- **Turnbull**, **Robert**. *Codex Sinaiticus Arabicus and Its Family: A Bayesian Approach*. Vol. 66. New Testament Tools, Studies and Documents. Leiden: Brill, 2025. ISBN: 978-90-04-68580-2. DOI: 10.1163/9789004704619. URL: https://brill.com/display/title/69300.
- **Turnbull**, **Robert** and Evelyn Mannix. "Detecting and recognizing characters in Greek papyri with YOLOv8, DeiT and SimCLR". in: *International Journal on Document Analysis and Recognition (IJDAR)* (Nov. 2024). ISSN: 1433-2825. DOI: 10.1007/s10032-024-00504-8. URL: https://doi.org/10.1007/s10032-024-00504-8.
- **Turnbull**, **Robert** and Simon Mutch. "Separating Lungs in CT Scans for Improved COVID19 Detection". In: *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*. June 2024, pp. 5216–5222.

Paper describing our first-place submission to the 2024 DEF-AI-MIA competition.

- Wirth, Wytamma, Simon Mutch, and **Robert Turnbull**. "Snk: A Snakemake CLI and Workflow Management System". In: *Journal of Open Source Software* 9.103 (2024), p. 7410. DOI: 10.21105/joss.07410.
- McCollum, Joey and **Robert Turnbull**. "Using Bayesian phylogenetics to infer manuscript transmission history". In: *Digital Scholarship in the Humanities* (Dec. 2023), fqad089. ISSN: 2055-7671. DOI: 10.1093/llc/fqad089. eprint: https://academic.oup.com/dsh/advance-article-pdf/doi/10.1093/llc/fqad089/54586935/fqad089.pdf. URL: https://doi.org/10.1093/llc/fqad089.
- Montoro, Peter and **Robert Turnbull**. "Two Way Traffic on the Transmissional Highway? Considering Chrysostom's Exegesis as an Explanation for the Reading of GA 104 in Romans 2:26". In: *Pen, Print, and Pixels: Advances in Textual Criticism in the Digital Era*. Peabody, MA: Hendrickson, 2023. *Contribution:* 40%.
- Salazar, Vinícius W, Babak Shaban, Maria del Mar Quiroga, **Robert Turnbull**, Edoardo Tescari, Vanessa Rossetto Marcelino, Heroen Verbruggen, and Kim-Anh Lê Cao. "Metaphor—A workflow for streamlined assembly and binning of metagenomes". In: *GigaScience* 12 (July 2023), giad055. ISSN: 2047-217X. DOI: 10.1093/gigascience/giad055. eprint: https://academic.oup.com/gigascience/article-pdf/doi/10.1093/gigascience/giad055.pdf. URL: https://doi.org/10.1093/gigascience/giad055.
- Shaban, Babak, Maria Mar del Quiroga, **Robert Turnbull**, Edoardo Tescari, Kim-Anh Lê Cao, and Heroen Verbruggen. "MetaGenePipe: An Automated, Portable Pipeline for Contig-based Functional and Taxonomic Analysis". In: *Journal of Open Source Software* 8.82 (2023), p. 4851. DOI: 10.21105/joss.04851.
 - Contribution: 15%. I wrote a module of the software package, set up the testing, documentation and worked to write text of the manuscript. The Journal of Open Source Software has an impact factor of 5.

- Thompson, Karen M., **Robert Turnbull**, Emily Fitzgerald, and Joanne L. Birch. "Identification of herbarium specimen sheet components from high-resolution images using deep learning". In: *Ecology and Evolution* 13.8 (2023). e10395 ECE-2023-05-00833.R1, e10395. DOI: https://doi.org/10.1002/ece3.10395. eprint: https://onlinelibrary.wiley.com/doi/pdf/10.1002/ece3.10395. URL: https://onlinelibrary.wiley.com/doi/abs/10.1002/ece3.10395.
- **Turnbull**, **Robert**. "Lung Segmentation Enhances COVID-19 Detection". In: 2023 IEEE International Conference on Acoustics, Speech, and Signal Processing Workshops (ICASSPW). 2023, pp. 1–5. DOI: 10.1109/ICASSPW59220.2023. 10193492.
 - Paper describing my first-place submission to the 2023 AI-MIA-COV19D competition.
- Turnbull, Robert. "Using a 3D ResNet for Detecting the Presence and Severity of COVID-19 from CT Scans". In: Computer Vision ECCV 2022 Workshops. Ed. by Leonid Karlinsky, Tomer Michaeli, and Ko Nishino. 7. Cham: Springer Nature, 2023, pp. 663–676. ISBN: 978-3-031-25082-8. DOI: 10.1007/978-3-031-25082-8_45. Paper describing my runner-up submission to the 2022 AI-MIA-COV19D competition as part of the European Conference on Computer Vision (Tel Aviv).
- Crawford, R H, V Paton-Cole, **R. Turnbull**, E Fitzgerald, A Michalewicz, and J Garber. "Trends in Residential Sustainability Measures in the State of Victoria". In: *IOP Conference Series: Earth and Environmental Science* 1101.2 (Nov. 2022), p. 022018. DOI: 10.1088/1755-1315/1101/2/022018.
 - Contribution: 25%. I lead the MDAP collaboration project which lead to this publication. Specifically, I added wrote much of the software and designed many of the data visualisations for this paper. I also wrote sections of the manuscript. Paper presented at the CIB World Building Congress in Melbourne (2022).
- McCollum, Joey and **Robert Turnbull**. "teiphy: A Python Package for Converting TEI XML Collations to NEXUS and Other Formats". In: *Journal of Open Source Software* 7.80 (2022), p. 4879. DOI: 10.21105/joss.04879. Contribution 40%. As McCollum's PhD Supervisor, I worked with him in writing the software package and in editing the manuscript.
- Paton-Cole, V, R H Crawford, **R. Turnbull**, E Fitzgerald, A Michalewicz, and J Garber. "Trends in Residential Building Materials in the State of Victoria". In: *IOP Conference Series: Earth and Environmental Science* 1101.4 (Nov. 2022), p. 042022. DOI: 10.1088/1755-1315/1101/4/042022.
 - As above for Crawford et al. 2022.
- **Turnbull**, **Robert**. "Verse Metrics: Analysing Manuscript Families Using a String Alignment Algorithm with a Test Case in the Arabic Gospels". In: *New Approaches to Textual and Image Analysis in Early Jewish and Christian Studies*. Ed. by Garrick V. Allen, Paul Dilley, Sara Schulthess, and Peter Philips. Digital Biblical Studies. Leiden: Brill, 2022, pp. 146–169. DOI: 10.1163/9789004515116_009.
 - Brill is a major European publisher in my field. Presented at the Society of Biblical Literature International Meeting in Helsinki (2018).
- Turnbull, Robert and Jonathan Garber. "ausdex: A Python package for adjusting Australian dollars for inflation". In: Journal of Open Source Software 7.75 (2022), p. 4212. DOI: 10.21105/joss.04212. Contribution: 80%.
- Wirth, Wytamma, Simon Mutch, **Robert Turnbull**, and Sebastian Duchene. "Phytest: Quality Control for Phylogenetic Analyses". In: *Bioinformatics* 38.22 (Oct. 2022), pp. 5124–5125. ISSN: 1367-4803. DOI: 10.1093/bioinformatics/btac664.
 - Contribution: 25%. Bioinformatics (Oxford University Press) is a major journal in the field. It has an H-Index of 415 and is ranked 5 out of 57 of computational biology journals. I contributed by writing the software and testing suite and by helping to edit the manuscript.
- Alhagh, Leila, Merav Carmeli, G. Geltner, John Henry, Stephen J. Joyce, Janice Pinder, and **Robert Turnbull**. "Inventorying "Pre-modern" Manuscripts in Victorian Public and Private Collections: Expanding the Cultural Archive". In: *Script & Print* 45.3 (2021), pp. 148–165.
 - Contribution: 15%. My role included developing and maintaining the database and website. I also worked to edit the article. Script & Print is a Q1 journal for Literature and Literary Theory. Paper presented at the Australian and New Zealand Association for Medieval and Early Modern Studies conference (Perth, 2022).

Montoro, Peter and **Robert Turnbull**. "Revising the Repetitions: The Relative Textual Stability of Repeated Patristic Citations as a Window into the Transmission History of Patristic Exegesis — Chrysostom's Homilies on Romans as an Initial Test Case". In: *Sacris Erudiri* LX (2021), pp. 69–99. DOI: 10.1484/J.SE.5.128776.

Contribution: 40%. Sacris Erudiri, published by Brepols, is a major journal in the field of Patristics. I worked on the technical aspects of this analysis and helped to edit the text of the manuscript.

Turnbull, **Robert**. "Can Manuscript Headings Prove That There Were Arabic Gospels before the Qurān?" In: *Scribal Habits in Near Eastern Manuscript Traditions*. Ed. by George Kiraz and Sabine Schmidtke. Piscataway, N.J.: Gorgias, 2021, pp. 291–308. DOI: 10.31826/9781463241964-016.

Presented at the Dots, Marginalia and Peritexts in Middle Eastern Manuscripts Workshop at the Institute for Advanced Study, Princeton (2018).

Turnbull, **Robert**. "The Textual Character of Codex Sinaiticus Arabicus and Its Family". In: *At One Remove: The Text of the New Testament in Early Translations and Quotations. Papers from the Eleventh Birmingham Colloquium on the Textual Criticism of the New Testament*. Ed. by Hugh A.G. Houghton and Peter Montoro. Piscataway, N.J.: Gorgias, 2020, pp. 87–106. DOI: 10.31826/9781463241100-007.

The Birmingham Colloquium is the most significant conference dedicated to New Testament Textual Criticism.

Turnbull, **Robert**. "Arabic Gospel Lectionaries at Sinai". In: *Collectanea Christiana Orientalia* 16 (2019), pp. 131–166. DOI: 10.21071/cco.v16i.14609.

Collectanea Christiana Orientalia is a major journal in Christian Arabic literature. Presented at the Biblia Arabica Conference in Tel Aviv in 2017.

Stegman, D.R., L. Moresi, **R. Turnbull**, J. Giordani, P. Sunter, A. Lo, and S Quenette. "gLucifer: Next Generation Visualization Framework for High-Performance Computational Geodynamics". In: *Visual Geosciences* 13.1 (2008), pp. 71–84. DOI: 10.1007/s10069-008-0010-2.

Contribution: 40%. I was the chief developer of gLucifer.

Farrington, Rebecca, Louis Moresi, Steve Quenette, **Robert Turnbull**, and Patrick Sunter. "Geodynamic Benchmarking Tests in HPC". in: *Australian Partnership for Advanced Computing Conference*. 2005. DOI: 10.5281/zenodo. 3885977.

Contribution: 30%. At that time I was the main developer of Underworld which was one of the software components discussed in this article.

Quenette, Steve, Louis Moresi, Patrick Sunter, L. Hodkinson, R. Hassan, A. Lo, B Appelbe, and **Robert Turnbull**. "Supporting Community Based Computational Code Development". In: *Proceedings of the APAC Conference and Exhibition on Advanced Computing, Grid Applications and eResearch.* 2005. *Contribution:* 20%.

Preprints

Papers that have not yet passed peer-review but available on preprint servers.

Turnbull, **Robert**, Emily Fitzgerald, Karen Thompson, and Joanne L. Birch. "Hespi: A pipeline for automatically detecting information from herbarium specimen sheets". In: *arXiv* (2024). DOI: 10.48550/arXiv.2410.08740. arXiv: 2410.08740 [CS.CV]. URL: https://arxiv.org/abs/2410.08740.

Turnbull, **Robert**, Damien Mannion, Jessie Wells, Kabir Manandhar Shrestha, Attila Balogh, and Rebecca Runting. "Themeda: Predicting land cover change using deep learning". In: *SSRN* (2024). DOI: 10.2139/ssrn.4681094.

Turnbull, **Robert**, Jacob L. Steenwyk, Simon J. Mutch, Pelle Scholten, Vinícius W. Salazar, Joanne L. Birch, and Heroen Verbruggen. "Orthoflow: phylogenomic analysis and diagnostics with one command". In: *Research Square* (2023). DOI: 10.21203/rs.3.rs-3699210/v2.

Academic Competition Achievements

CVPR 2024: Domain adaptation, Explainability, Fairness in AI for Medical Image Analysis (DEF-AI-MIA) workshop

COVID-19 Detection: **First Place** Domain Adaptation: **Second Place**

ICDAR2023 Competition on Detection and Recognition of Greek Letters on Papyri.

Character Classification: **First Place** Character Detection: **Second Place**

IEEE ICASSP 2023: AI-enabled Medical Image Analysis Workshop and Covid-19 Diagnosis Competition (AI-MIA-

COV19D).

COVID-19 Severity Prediction: **First Place** COVID-19 Presence Detection: **Second Place**

ECCV 2022 Workshop: AI-enabled Medical Image Analysis – Digital Pathology & Radiology/COVID19.

COVID-19 Presence Detection: Runner-up

Conference Papers

Abstracts passed peer-review. Does not include conference papers that were later published and listed above.

- Montoro, Peter and **Robert Turnbull**. "Transmissional Entropy: Using IGNTP Transcriptions to Investigate the Influence of Catenae on the Transmission of Romans". In: *Birmingham Colloquium on the Textual Criticism of the New Testament*. Birmingham, May 2023.
- **Turnbull**, **Robert**. "Bayesian Inference in Medical Literature: Trends in PubMed Data". In: *Association for Interdisci*plinary Metaresearch Open Science (AIMOS) Conference. Brisbane, Nov. 2023.
- **Turnbull**, **Robert**. "Identifying Frame Catena Folios Using Artificial Intelligence". In: *Birmingham Colloquium on the Textual Criticism of the New Testament*. Birmingham, May 2023.
- **Turnbull**, **Robert** and Mar Quiroga. "Large Language Model (LLM) Hackathon using Structured PubMed XML Data". In: *Association for Interdisciplinary Metaresearch Open Science (AIMOS) Conference*. Brisbane, Nov. 2023.
- **Turnbull**, **Robert** and Maria del Mar Quiroga. "Crunch: A Data Processing Orchestration Tool for Open Science". In: *Association for Interdisciplinary Metaresearch & Open Science*. Melbourne, Nov. 2022.
- Glazov, Gregory and **Robert Turnbull**. "Database of Scriptural Citations in Jewish Holocaust Literature". In: *Society of Biblical Literature Annual Meeting*. San Antonio, Nov. 2021.
- Glazov, Gregory and **Robert Turnbull**. "Online Scriptural Database of Jewish Theological Writings on the Holocaust". In: *Annual Meeting of the Catholic Biblical Association*. Aug. 2021.
- Lang, Birgit, Nick Thieberger, Brigid Grigg, **Robert Turnbull**, Daniel Russo-Batterham, and Edoardo Tescari. "From Archival Find to Public Domain: Otto Rank's Homosexual Tendencies in Mythology and Literature". In: *Australasian Association for Digital Humanities*. Christchurch, Nov. 2021.
- **Turnbull**, **Robert**. "Arabic Lectionaries of the Epistles at Sinai". In: *European Academy of Religion*. Münster, Aug. 2021.
- **Turnbull**, **Robert** and Brian Rosner. "A Phylogenetic Analysis of Romans and 1 Corinthians". In: *Society of Biblical Literature Annual Meeting*. San Antonio, Nov. 2021.
- **Turnbull**, **Robert**. "Analyzing Scribal Habits through Bayesian Phylogenetic Analysis". In: *Society of Biblical Literature Annual Meeting*. Boston, Nov. 2020.
- **Turnbull**, **Robert**. "D-Codex for Lectionaries: Software for Analysing the NT Lectionary Tradition". In: *Text-Critical Thursdays*. University of Birmingham, Nov. 2020.
- **Turnbull**, **Robert**. "Analyzing Translation Technique Using Neural Networks". In: *Society of Biblical Literature Annual Meeting*. San Diego, Nov. 2019.
- **Turnbull**, **Robert**. "Codex Sinaiticus Arabicus and the Transmission of the Gospels: Applying Bayesian Phylogenetics to Textual Criticism". In: *Society of Biblical Literature Annual Meeting*. San Diego, Nov. 2019.

- **Turnbull**, **Robert**. "Arabic Gospel Lectionaries at Jerusalem". In: *European Association of Biblical Studies Meeting*. Helsinki, Aug. 2018.
- **Turnbull**, **Robert**. "D-Codex: Software for Digital Manuscript Transcription, Analysis, and Publication". In: *Society of Biblical Literature Annual Meeting*. Dallas, Nov. 2018.
- **Turnbull**, **Robert**. "Codex Sinaiticus Arabicus and its Family". In: *European Association of Biblical Studies/Society of Biblical Literature International Meeting*. Berlin, Aug. 2017.

Acknowledged Contributions

Aetius. *Placita*. Ed. by Jaap Mansfeld and David Runia. Loeb Classical Library. Cambridge, MA: Harvard University Press, 2023.

I edited and translated the Arabic text.

Muir, Bernard J. *The Cædmon Manuscript: The Beginnings of English Religious Poetry, I.* London: Anthem, 2023. *I designed the quire diagrams.*

Carlson, Stephen C., ed. *Papias of Hierapolis Exposition of Dominical Oracles: The Fragments, Testimonia, and Reception of a Second-Century Commentator.* Oxford: Oxford University Press, 2021.

I edited and translated the Arabic text.

Shewan, Louise, Richard Armstrong, Dougald O'Reilly, Siân Halcrow, Nancy Beavan, and Tep Sokha. "Isotopic Insights into the Jar-and-Coffin Mortuary Ritual of the Cardamom Mountains, Cambodia". In: *Antiquity* 94.378 (2020), pp. 1575–1591. DOI: 10.15184/aqy.2020.201.

I helped prepare the images for publication.

Moresi, L., S.M. Quenette, V. Lemiale, C. Mériaux, B. Appelbe, and H.-B. Mühlhaus. "Computational Approaches to Studying Non-Linear Dynamics of the Crust and Mantle". In: *Physics of the Earth and Planetary Interiors* 163.1–4 (2007), pp. 69–82. DOI: 10.1016/j.pepi.2007.06.009.

Quenette, S.M., L. Moresi, P. Sunter, and B. Appelbe. "Explaining StGermain: An Aspect Oriented Environment for Building Extensible Computational Mechanics Modeling Software". In: 2007 IEEE International Parallel and Distributed Processing Symposium. 2007. DOI: 10.1109/IPDPS.2007.370400.

Stegman, D. R., J. Freeman, W. P. Schellart, L. Moresi, and D. May. "Influence of Trench Width on Subduction Hinge Retreat Rates in 3-D Models of Slab Rollback". In: *Geochemistry, Geophysics, Geosystems* 7.3 (2006).

Quenette, S.M., B Appelbe, M. Gurnis, L. Hodkinson, L. Moresi, and P. Sunter. "An Investigation into Design for Code Maintainability in HPC". in: *ANZIAM Journal* 46.E (2004), pp. C1001–C1016. DOI: 10.21914/anziamj.v46i0.1003.

Non-Traditional Research Outputs

TorchApp: a tool for creating of deep learning projects with fastai (2022).

https://github.com/rbturnbull/torchapp.

hierarchicalsoftmax: A Hierarchical Softmax Framework for PyTorch (2022).

https://github.com/rbturnbull/hierarchicalsoftmax.

hespi: HErbarium SPecimen sheet PIpeline (2022).

https://github.com/rbturnbull/hespi.

Supercat: Super-resolution of CT Scans of Rock and Sand (2022).

https://github.com/rbturnbull/supercat.

Orthoflow: Phylogenomic analysis and diagnostics with a single command (2022).

https://github.com/rbturnbull/orthoflow

imcluster: A command line tool to cluster images (2022).

https://github.com/rbturnbull/imcluster

corgi: Classifier of ORganelle Genomes Inter alia (2021).

https://github.com/rbturnbull/corgi

dcodex: A software framework for manuscript analysis (2020).

https://github.com/rbturnbull/dcodex.

Plain of Jars Archaeological Project Website (2020).

https://plain-of-jars.org/.

The Textual History of Codex Sinaiticus Arabicus and its Family Data Repository (2020). https://github.com/rbturnbull/thesis data.

FastQC Plot. Visualising the quality of high throughput sequence data (2020). https://gitlab.unimelb.edu.au/rturnbull/fastqcplot.

Redesign of 'Toothprint: Proteomics database for dental tissue proteins' (2020).

https://tooth-print.mdhs.unimelb.edu.au.

Bibliography of the Arabic Bible: A Classified and Annotated History of Scholarship (2018).

https://biblia-arabica.com/bibl/index.html.

Underworld 1: Geodynamics Framework (2018).

doi:10.5281/zenodo.1445812.

Bible Vocab: Educational software for learning biblical Greek and Hebrew (2011). http://www.bible-vocab.com.

Presentations by Invitation

Arabic translations of 'Caesarean' texts of the Gospels in the Sinai New Finds

Ancient World Seminars. School of Historical and Philosophical Studies, University of Melbourne.

Example 1 September, 2021

Introduction to the Text Encoding Initiative (TEI)

Social & Cultural Informatics Platform (SCIP), Melbourne Data Analytics Platform (MDAP).

i July, 2021

Text Genes: Using phylogenetics to explore the evolution of the New Testament text

Humanities and Diverse eResearch Scholars (HADES) Seminar

i June, 2021

Phylogenetics and Textual Traditions

Doherty Institute

March, 2021

Prizes and Scholarships

New Testament Prize

Honorary Mention

2017. European Association of Biblical Studies

Raggatt Scholarship for an Emerging Academic

2017–2020. Ridley College

Top Graduating Student

苗 2016. Ridley College

Mildred Morris New Testament Prize

iii 2012. Ridley College

Kenneth Cable Prize for Church History

■ 2011. Australian College of Theology

Christian Thought Award

📋 2010 and 2011. Ridley College

Outstanding Academic Performance in a First Year of Study

苗 2010. Ridley College

Dean's Scholar

abla 2001–2003. Monash University

Academic Merit Scholarship

iii 1996–2000. Scotch College

Grants

Travel Grant - \$1,000

November, 2023. Association for Interdisciplinary Metaresearch & Open Science (AIMOS)

Living with COVID - \$30,000

2020. School of Computing and Information Systems

Received jointly with team.

Living with COVID - \$15,000

aby Foundation

Received jointly with team.

Travel Grant - \$1,250

ii November, 2019. Australian College of Theology

Travel Grant - \$1,200

November, 2018. Australian College of Theology

David A. Gardner '69 Magic Project Sponsorship – \$1,395

May, 2018. Princeton University

Travel Grant - \$770

July, 2017. European Association of Biblical Studies