



DORDT WRITES: JOURNAL ARTICLES

FRIDAY, APRIL 25, 2025

HULST LIBRARY

Celebrating scholarly articles published by Dordt Faculty, July 2023-June 2025

LIGHTNING TALKS

HULST LIBRARY ROOM 267

3:30PM

MIKE JANSSEN: "SOLVING THE GAME OF CYCLES"

GAYLE DOORNBOS: "TRINITY AND CREATION"

CHANNON VISSCHER: "MOLECULES IN THE MIDDLE: FIRST DETECTIONS OF TRACER SPECIES IN SUBSTELLAR OBJECTS"

JEREMY PERIGO: "'YOU NEVER STOP WORKING': SINGING THE EXHAUSTING AMERICAN WORK ETHIC TO THE GOD WHO RESTED"

JASON HO: "THE SCALAR MESON PUZZLE"

VALORIE ZONNEFELD & LURALYN HELMING: "BUILDING MATH TEACHING EFFICACY IN PRESERVICE TEACHERS"

PEER-REVIEWED PUBLICATIONS

SHOWCASED THROUGHOUT THE HULST LIBRARY

The following list includes scholarly articles published by Dordt faculty between July 2023 and June 2025.

Bailey, J. (2024). The medicine of humility for pastor-theologians. *Center for Pastor Theologians Journal*, 11(1), 1-14.

Bailey, J. A., & Westfall, D. M. (2024). The mercy seat: An artistic grammar for substitutionary atonement. *Spiritus: A Journal of Christian Spirituality*, 24(1), 77-98.

<https://doi.org/10.1353/scs.2024.a924574>

Chesser, M., & Leininger, C. J. (2024). Purely pseudo-Anosov subgroups of the genus 2 handlebody group. *Groups, Geometry, and Dynamics*. <https://doi.org/10.4171/GGD/818>

Clark, T. (2024). Falling water: A modeling story. *PRIMUS*, 34(2), 168-181.

<https://doi.org/10.1080/10511970.2023.2250772>

De Groot, A. (2023). Found families: An idea for blending whole-class novels and student choice in middle school and high school English classrooms. *Christian Educators Journal*, 62(4), 19. <https://www.cejonline.com/article/found-families-an-idea-for-blending-whole-class-novels-and-student-choice-in-middle-school-and-high-school-english-classrooms/>

de Waal, S. (2023, November). Little women, two raccoons. *Geist Magazine*, 123. <https://www.geist.com/fact/little-women-two-raccoons>

Doornbos, G. E. (2024). Trinity and creation: Bavinck on the *Vestigia Trinitatis*. *Perichoresis*, 22(1), 42-55. <https://doi.org/10.2478/perc-2024-0003>

Campmier, M. J., **Gingrich, J.**, Singh, S., Baig, N., Gani, S., Upadhyा, A., ... & Apte, J. S. (2023). Seasonally optimized calibrations improve low-cost sensor performance: long-term field evaluation of PurpleAir sensors in urban and rural India. *Atmospheric Measurement Techniques*, 16(19), 4357-4374. <https://doi.org/10.5194/amt-16-4357-2023>

Thakur, A. K., **Gingrich, J.**, Vance, M. E., & Patel, S. (2024). Insights into low-cost pm sensors using size-resolved scattering intensity of cooking aerosols in a test house. *Aerosol Science and Technology*, 58(7), 739-751.
<https://doi.org/10.1080/02786826.2024.2342722>

Upadhyा, A. R., Kushwaha, M., Agrawal, P., **Gingrich, J. D.**, Asundi, J., Sreekanth, V., ... & Apte, J. S. (2024). Multi-season mobile monitoring campaign of on-road air pollution in Bengaluru, India: High-resolution mapping and estimation of quasi-emission factors. *Science of the Total Environment*, 914, 169987.
<https://doi.org/10.1016/j.scitotenv.2024.169987>

Griffoen, P., & Arcak, M. (2023, December). Data-driven reachability analysis for Gaussian process state space models. In *2023 62nd IEEE Conference on Decision and Control (CDC)* (pp. 4100-4105). IEEE. <https://doi.org/10.1109/CDC49753.2023.10383270>

Griffoen, P., Krogh, B. H., & Sinopoli, B. (2024). Ensuring resilience against stealthy attacks on cyber-physical systems. *IEEE Transactions on Automatic Control*, 69(12). 8234-8246.
<https://doi.org/10.1109/TAC.2024.3401013>

Griffoen, P., Romagnoli, R., Krogh, B. H., & Sinopoli, B. (2023). Reducing attack opportunities through decentralized event-triggered control. *IEEE Transactions on Control of Network Systems*, 11(3), 1576-1586. <https://doi.org/10.1109/TCNS.2023.3343151>

Sonmez, Y., Wintz, P., **Griffoen, P.**, Xu, M., Oh, S., Litz, H., Sanfelice, R. & Arcak, M. (2025, May). SHARC: Simulator for Hardware Architecture and Real-Time Control. In *28th ACM International Conference on Hybrid Systems: Computation and Control (HSCC)*. Association for Computing Machinery.

Fariborz, A. H., **Ho, J.**, & Steele, T. G. (2025). Extending the bridge connecting chiral Lagrangians and QCD Gaussian sum-rules for low-energy hadronic physics. *arXiv.org*.
<https://doi.org/10.48550/arXiv.2501.12601>

Ho, J., Klanderman, D., Klanderman S. & Carvell, J. (in press). Setting up students for success: Analysis of effectiveness of mathematics placement. *Journal and Proceedings of the 2024 ACMS Conference*.

Li, S., Steele, T. G., **Ho, J.**, Raza, R., Williams, K., & Kleiv, R. T. (2024). QCD bounds on leading-order hadronic vacuum polarization contributions to the muon anomalous magnetic moment. *Physical Review D*, 110(1), 014046.
<https://doi.org/10.1103/PhysRevD.110.014046>

- Garcia, J., **Janssen, M.**, & Kautz, E. (2025). A computational solution to the game of cycles. *Involve, a Journal of Mathematics*, 18(1), 123-140.
<https://doi.org/10.2140/involve.2025.18.123>
- Jelsma, T.** (2025). On gender, gender incongruence, and gender-affirming care. *Perspectives on Science and Christian Faith*, 77(1), 2-25. <https://doi.org/10.56315/PSCF3-25Jelsma>
- Kearney, M. R.** (2023). Between fundamentalists and funnymonkeyists: Clarence Edward Macartney's rhetoric of moderate orthodoxy. *Journal of Communication & Religion*, 46(3), 54-73. <https://doi.org/10.5840/jcr20234634>
- Mancino, S., & **Kearney, M. R.** (2024). Philosophy of communication within the narrative of interpretive research. *Qualitative Research Reports in Communication*, 25(1), 127-135.
<https://doi.org/10.1080/17459435.2023.2291011>
- Kroeze Visser, A.**, Pithan, A., Kupershmidt, S., Kenyon, D. B., & Puumala, S. E. (2025). Integration of community health workers into palliative care teams: A scoping review. *Western Journal of Nursing Research*, 47(2), 110-124.
<https://doi.org/10.1177/01939459241304520>
- Kupershmidt, S., Pithan, A., Fischbach, C., Pudwill, K., Berke, C., **Kroeze Visser, A.**, ... & Kullerd, D. (2024). Pragmatic trial of palliative care support using extension for community healthcare outcomes mentoring. *Journal of Hospice & Palliative Nursing*, 26(5), E170-E179. <https://doi.org/10.1097/NJH.0000000000001060>
- Jiang, A., Ulrich, R., Van De Griend, K., Tintle, N., **McCarthy, M.**, & Beckelhymer, D. A. (2023). Mental health service-seeking behavior in post-Soviet Ukraine. *International Journal of Mental Health*, 52(2), 179-195. <https://doi.org/10.1080/00207411.2023.2177464>
- Mulder, D. J.** (2024). Digital florilegium: A high-tech twist on an ancient reading practice. *Journal of Technology-Integrated Lessons and Teaching*, 2(2), 25–31.
<https://doi.org/10.13001/jtilt.v2i2.7813>
- Perigo, A.**, & **Perigo, J.** (2025). Poured out on your sons and daughters: Pneumatologically shaped pedagogical practices for engaging children in congregational worship. *Religions*, 16(2), 243. <https://doi.org/10.3390/rel16020243>
- Perigo, J.** (2024). ‘You never stop working’: Singing the exhausting American work ethic to the God who rested. *Evangelical Quarterly: An International Review of Bible and Theology*, 95(1), 20-34. <https://doi.org/10.1163/27725472-09501001>

- Tang, J. Y. M., & **Perigo, J.** (2024). Cultural Expression and Liturgical Theology in the Worship Songs Sung by British-Born Chinese. *Religions*, 15(9), 1054. <https://doi.org/10.3390/rel15091054>
- Timmer, K. J.** (2024). Shalom seeking: Contours for flourishing. *Conference Proceedings of the 2024 Christian Engineering Conference (CEC)*. https://digitalcommons.cedarville.edu/christian_engineering_conference/2024/proceedings/34/
- Vander Werf, J. R.** (2024). Applying normative design approach to civil engineering. In *Christian Engineering Conference 2024* (p. 65). https://digitalcommons.cedarville.edu/christian_engineering_conference/2024/proceedings/8/
- Veenstra, J. H.**, Chabéz, A., Haanen, T. J., Keranen, A., Cunningham-Rundles, C., & O'Brien, P. J. (2024). Rare variants of DNA ligase 1 show distinct mechanisms of deficiency. *Journal of Biological Chemistry*, 300(12). <https://doi.org/10.1016/j.jbc.2024.107957>
- Beiler, S. A., Mukherjee, S., Cushing, M. C., Kirkpatrick, J. D., Schneider, A. C., Kothari, H., ... & **Visscher, C.** (2024). A tale of two molecules: The underprediction of CO₂ and overprediction of PH₃ in late T and Y dwarf atmospheric models. *The Astrophysical Journal*, 973(1), 60. <https://doi.org/10.3847/1538-4357/ad6759>
- Calamari, E., Faherty, J. K., **Visscher, C.**, Gemma, M. E., Birmingham, B., & Rothermich, A. (2024). Predicting cloud conditions in substellar mass objects using ultracool dwarf companions. *The Astrophysical Journal*, 963(1), 67-82. <https://doi.org/10.3847/1538-4357/ad1f6d>
- Grant, D., Lewis, N. K., Wakeford, H. R., Batalha, N. E., Glidden, A., Goyal, J., ... **Visscher, C.** ... & Watkins, L. L. (2023). JWST-TST DREAMS: Quartz clouds in the atmosphere of WASP-17b. *The Astrophysical Journal Letters*, 956(2), L32. <https://doi.org/10.3847/2041-8213/acfc3b>
- Lee, E. K., Tsai, S. M., Moses, J. I., Plane, J. M., **Visscher, C.**, & Klippenstein, S. J. (2024). A photochemical phosphorus-hydrogen-oxygen network for hydrogen-dominated exoplanet atmospheres. *The Astrophysical Journal*, 976(2), 231. <https://doi.org/10.3847/1538-4357/ad8915>
- McCarthy, A. M., Vos, J. M., Muirhead, P. S., Biller, B. A., Morley, C. V., Faherty, J., ... **Visscher, C.** ... & Zhou, Y. (2025). The JWST weather report from the isolated exoplanet analog SIMP

0136+ 0933: Pressure-dependent variability driven by multiple mechanisms. *The Astrophysical Journal Letters*, 981(2), L22. <https://doi.org/10.3847/2041-8213/ad9eaf>

Morley, C. V., Mukherjee, S., Marley, M. S., Fortney, J. J., **Visscher, C.**, Lupu, R., ... & Batalha, N. (2024). The Sonora substellar atmosphere models. III. Diamondback: Atmospheric properties, spectra, and evolution for warm cloudy substellar objects. *The Astrophysical Journal*, 975(1), 59. <https://doi.org/10.3847/1538-4357/ad71d5>

Mukherjee, S., Fortney, J. J., Morley, C. V., Batalha, N. E., Marley, M. S., Karalidi, T., ... **Visscher, C.** ... & Gharib-Nezhad, E. (2024). The Sonora substellar atmosphere models. IV. Elf Owl: Atmospheric mixing and chemical disequilibrium with varying metallicity and C/O ratios. *The Astrophysical Journal*, 963(1), 73. <https://doi.org/10.3847/1538-4357/ad18c2>

Phillips, C. L., Faherty, J. K., Burningham, B., Vos, J. M., Gonzales, E. C., Griffith, E. J., ... **Visscher, C.** ... & Wang, J. (2024). Retrieving young cloudy L dwarfs: A nearby planetary-mass companion BD+ 60 1417B and its isolated red twin W0047. *The Astrophysical Journal*, 972(2), 172. <https://doi.org/10.3847/1538-4357/ad5d57>

Rowland, M. J., Morley, C. V., Miles, B. E., Suarez, G., Faherty, J. K., Skemer, A. J., ... **Visscher, C.** ... & Wilson, M. J. (2024). Protosolar D-to-H abundance and one part per billion PH3 in the coldest brown dwarf. *The Astrophysical Journal Letters*, 977(2), L49. <https://doi.org/10.3847/2041-8213/ad9744>

Kerr, J., De Laporte, A., Weersink, A., **Vyn, R.**, & Van Eerd, L. L. (2023). Effects of cover crop, N and residue management on the financial sustainability of processing tomatoes in Southwestern Ontario. *Renewable Agriculture and Food Systems*, 38, e40, 1-9. <https://doi.org/10.1017/S1742170523000339>

Westfall, D. M. (2025). The mercy seat of the risen Christ: Atonement and the glory of God in Romans 3.21–26. *Journal for the Study of the New Testament*, 00(0), 1-23. <https://doi.org/10.1177/0142064X241309937>

Zonnefeld, V. L., & Helming, L. M. (2024). The effects of a mediated field experience methods course on pre-service elementary mathematics teachers' beliefs. *International Electronic Journal of Mathematics Education*, 19(3). <https://doi.org/10.29333/iejme/14729>