

CURRICULUM VITAE

Stephanie M. Hartz

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Education

Trinity International University, Deerfield, Illinois. Masters of Arts in Bioethics, 2026.

University of Maryland, Baltimore County. Doctor of Philosophy, December 1999. Cellular and Molecular Biology.

Doctoral dissertation: *"Transport of a Lysosomal Membrane Protein in Drosophila S2M3 and Shibirets1 Tissue Culture Cells: Chicken LEP100 uses the indirect pathway to reach the lysosomes."*

Towson University, Towson, Maryland. Bachelor of Science, Biology, December 1989.

Professional Experience

Bryan College, Dayton, TN (1999 – 2026)

Professor of Biology (2009 – 2026)

Associate Professor of Biology (2005- 2008)

Assistant Professor of Biology (1999 - 2004)

Responsible for developing, preparing and teaching major and non-major lecture and laboratory courses; student advising, mentoring, retention, and recruitment; serving on committees; and engaging in faculty development via learning from and encouraging, supporting colleagues in pursuit of spiritual growth and academic excellence that would foster the mind, heart, will, and virtue to the glory of God.

James Madison University, Harrisonburg, VA

Visiting Assistant Professor (1998 - 1999)

Teaching Experience

BIO 112: General Biology I: Cells, at Bryan College (BC)

BIO/PHIL: 348: Principles of Bioethics, BC

BIO 351: Biomedical Ethics, BC

BIO 211: Principles of Biology (designed for Biology/Health Science Majors), BC

SCI 116: Science Foundations (designed for all Majors), BC

BIO 101: God's Revelation in Biology, BC. (designed to integrate Philosophy, Theology, and Biology with Bioethical applications from a distinctly Biblical worldview.)

BIO 321: Cell Biology, BC

BIO 325: Genetics, BC

BIO 111: Introductory Biology for Nonmajors, BC

BIO 225: Essential Cell Biology, BC

BIO 421: Molecular and Cellular Biology Research, BC

BIO 334: Immunology, BC

BIO 224: Microbiology, BC
 BIO 338: Virology, BC
 BIO 499: Seminar in Biology, BC
 BIO 420: Molecular and Cellular Biology I, BC
 BIO 421: Molecular and Cellular Biology II, BC
 BIO 471 ISI: Independent Study: Advanced Student Research using Fluorescent Microscopy:
 "Double-labeling of myoD and myosin in differentiated C2C12 mouse myotubes", BC
 BIO 430: Medical Terminology, BC
 BIO 490: Special Topics - Principle of Bioethics, BC
 BIO 220: Cell Biology, at James Madison University (JMU)
 BIO 230: Genetics, JMU
 BIO 214: Cell and Molecular Biology, JMU

Publications, Research, & Editing

Publications:

Wise, K.P., J.W. Francis, N.A. Doran, A.J. Fabich, S. Hartz, and T. Hennigan. (2018), *"Devotional Biology: A young-age creationist, college-level, conceptual biology textbook."* In Proceedings of the Eighth International Conference on Creationism, ed. J.H. Whitmore, pp. 255-267. Pittsburgh, Pennsylvania: Creation Science Fellowship.

Goodnough, M.C., Oyler, G., Fishman, P.S., Johnson, E.A., Neale, E.A., Keller, J.E., Tepp, W.H., Clark, M., Hartz, S., and Adler, M. (2002), "Development of a Delivery Vehicle for Intracellular Transport of Botulinum Neurotoxin Antagonists." Federation of European Biochemical Societies (FEBS) Letters 513, pages 163-168.

Hartz, S.M and Roth, T.F "Transport of a Lysosomal Membrane Protein in *Drosophila* Tissue Culture Cells". (University of Maryland at Baltimore County, Ph.D. Thesis, 1999)

Hartz, S.M and Roth, T.F (1997), "Chicken LEP100 Is Transported to the Lysosomes by the Indirect Pathway in *Drosophila* S2M3 and *Shibire*^{ts1} Tissue Culture Cells". *Supplement to Molecular Biology of the Cell*, Volume 8, 1319: page 228a.

Hartz, S.M and Roth, T.F (1996), "Using the *Shibire* Mutation to Discriminate Between the Direct and Indirect Lysosomal Pathways". *Supplement to Molecular Biology of the Cell*, Volume 7, 782: page 134a.

Editor:

Undergraduate research paper entitled "Implications of Petaloidy and Viable Pollen for the Genetics of *Trillium erectum*." by biology major Ms. Andrea Bostrom. 1st Place Poster in *Bryan College Undergraduate Research Conference* (2016).

Undergraduate research paper entitled "miRNA and Multiple Sclerosis: Isolation of miRNAs in the TGFβ Pathway which Increase Susceptibility to Multiple Sclerosis." by biology major Ms. Christina Sabin. 1st Place Paper in *Bryan College Undergraduate Research Conference* (2016).

Articles by Dr. Jud Davis for monthly *Bryan Life* publications:

"The Lesson of the Oars: When God seems to Command the Impossible" and *"The Lion and the Lamb Series: Of Whom I am the Very First."* (2015-2016).

Undergraduate research paper entitled “Application of the Modified ABC Model to a Mutation in *Trillium Erectum*.” by biology major Andrea Bostrom. 2nd Place Paper in *Bryan College Undergraduate Research Conference* (2015).

Undergraduate research paper entitled “*DNA as Language: Observance of Statistical Linguistic Features in Human Chromosome 1.*” (2015) by biology major Ms. Crystal Passburg. 3rd Place Paper in *Bryan College Undergraduate Research Conference* (2015).

Textbook: “Devotional Biology” by Dr. Kurt Wise. Designed for undergraduate biology major and non-major students (2013-2016).

Undergraduate research paper entitled “*Expression of Human Endogenous Retroviruses during the Menstrual Cycle*” for presentation at the Baraminology Study Group (BSG) Conference (2009).

Undergraduate research paper entitled “Germ Genesis in *Mycobacterium leprae* and *Serratia marcescens*” for presentation at the Baraminology Study Group (BSG) Conference (2007).

Research:

Summer faculty research internship: “Uptake and Transport of BoNT/A, HcBoNT/A, and Delivery Vehicle in NG108-15 Tissue Culture Cells”, for the U.S. Army Medical Research Institute of Chemical Defense, Aberdeen Proving Grounds, MD. Summer 2001

Academic Presentations

Guest Lecture: Columbia International University (2026). “*To Evangelize We Metabolize.*”

Guest Lecturer: Bryan College, General Biology II: Organisms, BIO 113 (2024). “*Biological Relationships– Mutualisms & Biogeochemical Cycles.*”

Book Review Presentation of “*Anticipatory Ethics and Use of CRISPR in Humans*” by Michael W. Nestor & Richard L. Wilson. Springer, 2022. (2023 in Readings in Bioethics and Emerging Technologies course at Trinity International University)

Human-Animal Life Similarities & Distinctions in Biological & Theological Perspective. (2021 in Personhood in Theological and Philosophical Perspective course at Trinity International University)

Strengths and Weaknesses of Principlism in “*Principles of Medical Bioethics 7th Edition* by Beauchamp & Childress.” (2020 in Bioethics and Human Dignity course at Trinity International University)

Guest Lecturer: Bryan College, Honor’s class HNR 111 (2021). “*The Ethics of Animal-Human Embryo Chimera Research (HACE).*”

Guest Lecturer: Washington and Jefferson College, Department of Biology, Washington, PA. (1999). “*Cytoskeleton: Role of Microtubules*” and “*Undergraduate research interest: Lysosomal biogenesis in Drosophila.*”

Guest Lecturer: Longwood College, Farmville, VA. (1999). *"Metabolism: Basic Design and General Themes"*.

Guest Lecturer: Massachusetts College of Liberal Arts, Department of Biology, North Adams, MA. (1999). *"Introduction to the Cytoskeleton"*.

Presented at the 6th International Congress on Cell Biology & 36th American Society for Cell Biology (ACSB) Meeting in San Francisco (1996). "Using the *Shibire* Mutation to Discriminate Between the Direct and Indirect Lysosomal Pathways".

Conferences / Professional Meetings in Attendance and Participation

Origins Conference 2025: "100 Years of Creation," Bryan College, Dayton, TN. (2025)

Center for Bioethics and Human Dignity (CBHD) Conference: *"Living in the Biotech Century: The First 25 Years,"* Trinity International University, IL. (2025).

CBHD Conference: *"The Future of Health: Faith, Ethics, and Our Med-Tech World,"* Trinity International University, IL. (2024).

CBHD Conference: *"Christian Stake in BE Revisited."* Trinity Intl. University, IL. (2023).

CBHD Conference: *"Integrity & Conscience in the Health Profession."* Trinity International University, IL. (2022).

CBHD Conference: *"Bioethics and the Body."* Trinity International University, IL. (2021).

CBHD Conference: *"Bioethics in Real Life: Lessons We're Learning from COVID."* Trinity International University, IL. (2020).

Origins 2019 Conference at Pigeon Forge.

Origins 2016 Conference at Liberty University.

Origins 2015 Conference at Truett McConnell College.

International Conference on Creationism (ICC) (2013).

Creation Biology and Creation Geology Society Conference: "Origins 2013" (2013).

Faculty Development Seminar sponsored by MBA at Bryan College: "Redefining and Assessing Scholarship", (2007).

"Christians in Higher Ed" Reading Circle at Bryan College (2007).

Bryan College and Covenant College Science faculty at Covenant College, TN: "Science and Vocation in Christian College Teaching" (2003).

The United States Army and Medical Defense Bioscience Review in Maryland, (2001 and 2002).

8th Annual American Society for Virology Meeting in London, Ontario (1989).

Professional Service & Memberships

Christian Medical and Dental Association (CMDA) Membership: (2024-present)

Center for Bioethics & Human Dignity (CBHD) Membership: (2021-present)

Creation Biology Society (CBS) Membership: (2013; 2024-present)

ASCB (American Society for Cell Biology) Membership (1996-1998, 2002-2008)

AAAS (American Association for the Advancement of Science) Membership (2006-2008)

Library and Learning Committee: (2004-2025)

Faculty Status Committee (Alt): (2012-2013)

Student Honor Committee: (2005-2010)

Leadership Team to develop Bryan College's Quality Enhancement Plan (QEP): (2004-2005)

Chaired Faculty Committee for Quality Enhancement Plan (QEP): Supportive Campus Environment (2003)
Faculty Development Committee (FDC); served as Secretary (2002 – 2004)
Student Life Committee (1999-2004)
Worldview Team Committee (2003)

Student-Directed Research

Supervised Undergraduate Biology Major Honors Projects

Benjamin Hendrich Presentation: “Artificial Intelligence and Robotic Technology in Medicine” part 1 and “The Allure of Transhumanism in Medicine,” part 2. (2024)
Benjamin Hendrich Presentation: “Human-animal Chimeras: An Ethical Quagmire.” (2023)
Savannah Hendrich Presentation: “Undocumented Immigrants and Healthcare.” (2023)
Christabel Thompson Research Paper: “An Analysis of Gregor Mendel’s Worldview.” (2016)
Jared Cummings Presentation: “Clostridium difficile-Associated Diarrhea, Epstein-Barr Virus, and Mononucleosis,” with a MRSA case study. (2009)

Supervisory Student Research Committee Member for Biology Majors:

Natalie Hartman (2016-2017)
Andrea Bostrom (2015-2016)
Christina Sabin (2015-2016)
Matthew Dunlap (2015-2016)
Crystal Passburg (2014-2015)
Aaron Hunt (2012)
Lindsay Armstrong (2012)
David Mann (2002)
Jin Kim (1994-1995)

Directed and Editor of undergraduate research paper entitled “*Baraminology in the Dinosauria*.” by Natalie Hartman (2017).

Directed a Research Internship with Aaron Hunt: “*Optimizing methods for DNA plasmid purification, and transfection of mouse tissue culture cells with Reporter DNA pEGFP-N2, using Eugene 6 reagent.*” Summer (2012)

Directed Independent Student Research with Lindsay Armstrong: “*Double- labeling of myoD and myosin in differentiated C2C12 mouse myotubes.*” (Fall 2012)

Trained and supervised former Biology Major, David Mann, on a government-sponsored research project at the U.S. Army Medical Institute of Chemical Defense, Summer (2002)

Directed a research project involving a high school student, Jin Kim; Title: Phagocytosis of latex beads in endocytic mutant *Drosophila shibire^{ts1}*. Research presented at the National Junior Science Competition in Washington D.C., where she won 3rd Place Prize: (1994-1995)

Judge in Virginia Junior Science and Humanities Symposium at James Madison University (1999)

Community, Church, and Collegiate Service

Church member of Grace Bible Church: play cello in worship and for special events (2025 – present)
Caregiving for a 95 year-old widow and retired missionary from Spain (2025 – present)
Neighborhood service in Soddy Daisy residential community (2003-2022)
Weekly visitations with the elderly at Soddy Daisy Medical Center (2009- 2022)

Volunteer for Prison Prevention Ministry, for children's Christmas event (2011)
 Served homeless at "The Community Kitchen" in Chattanooga (2007 and summer 2009)
 As member of Brainerd Baptist Church (BBC) (since 2014 – 2025)
 Served weekly and for special events in Brainerd Baptist Church Orchestra (2014-2019)
 Served at "Children's Music Camp" (June 2016); and played cello for funeral (June 2016)
 As member of Red Bank Baptist Church (RBC) (2011-2014)
 Served weekly and for special events in RBC Orchestra (2011-2013)
 Participated in recording worship CD "Something Happens" with Church Orchestra (2013)
 Served on mission trip to Challis, Idaho (2012)
 A volunteer for children's music Sunday school class "Kidz Praise" (2012)
 As member of Dallas Bay Baptist Church (DBBC) (2003-2011)
 Serve weekly and for special events in Church Orchestra (2004-2006)
 Co-leader/server in Vacation Bible Study (2005 and 2009)
 Co-leader of a Bible Study Class for teenagers on the book "Lady in Waiting" (2004)
 Co-leader of an adult women's Bible Study Class
 As member of New City Fellowship Church (2001-2003)
 Taught/supervised Sunday School for 1-2yr old toddlers (2002)
 Volunteered at Memorial Day Outreach in Glenwood Community, serving food and supervising children games (2002-2003)
 Actively volunteered at church "work days", cleaning and organizing
 As member of Bryan College faculty (1999-2026)
 Served at "Orientation Day" for new students and their parents (2025)
 Recruitment service - meeting with prospective students, families, and homeschoolers giving tours and advising (1999-2025)
 Participated in Presidential Scholarship interviews and events (1999-2025)
 Devotional for Biology Departmental Chapels twice a year (2022-2024)
 Participate in *Scripturium* open community event of Scripture memory (2022-2023)
 Played cello in worship for faculty and staff "Day of Prayer" at Bryan College (2013-2015)
 Chapel Presentation, female student body: "*Finding Contentment Where I Am*" (2008)
 Faculty sponsor for a "Break for Change" trip to inner city Nashville, TN, (2006)
 Hosted Cedarville Ladies at house involved in a musical production at Bryan College (2004)
 Shared personal testimony at lady's luncheon Fundraiser Event in Sawgrass, Florida (2001)
 Devotional for Bryan Faculty Workshop (2000)
 Service events as a volunteer amateur cellist in orchestral performances at the following churches and events in the Dayton/Hixson/Chattanooga areas:
 Sale Creek Presbyterian Church (2024- 2025)
 Cranmore Cove Baptist Church (2024-2025)
 Bryan College Community Orchestra (2022)
 Scenic City Choir Spring Concert (May 2016)
 Brainerd Baptist Church (2013-current)
 Symphony of Praise (a Christian-based orchestra serving the local community) (2014)
 Red Bank Baptist Church (2007, 2011-2013)
 Hickory Valley Christian Church (2008)
 Fundraiser for Cole's surgery (2008)
 North Shore Presbyterian Church (2007)
 First Baptist Church in LaFayette (2007)
 First Presbyterian Church in Chattanooga (2007)
 Highland Baptist Church/Ladies tea (2007)

Alexian Nursing Home on Signal Mountain (2007)
Handel's Messiah, Bryan College (2006)
Played at alumni wedding (2006)
Chattanooga city-wide worship event at Memorial Auditorium, Summer (2006 and 2004)

Service Involving Bryan College Students

Organized student groups & participated to play music and/or visits with residents at various local Nursing and Assisted Living Centers (2012-2013; 2015)

One-on-one student engagement that involved: mentoring, prayer, bible study, or facilitating discussion on select books interfacing with personal and social life events

Emma Hiser (2024-present)

Marissa Marohl (2024-2025)

Grace Garcia (2024-2025)

Noah DeVries (2023-2025)

Carlos Vasquez (2022-2025)

Bria Cornwell (2022-2025)

John Bradley (2022-2025)

Mary Brown (2019)

Crystal Passburg (2013-2015). Mentoring and training in teaching at collegiate level.

Haley Jullian (2012-2013)

Jessica Tameler; "*Who I am in Christ*" by Neil Anderson" (2011-2013)

Rachel Mele (2009-2010)

Jana Watson and Brittany Rodriguez; "*Into Abbas Arms*" by Sandra Wilson (2007-2008)

Kirsten Leech; "*Pursuit of Holiness*" by Jerry Bridges (2006)

Hosted periodic dinner/fellowship at my home for Molecular and Cellular Biology, Essential Cell Biology, and Genetics classes, as well as all Biology majors and Department faculty (2003-2022)

Meet with female Biology majors at local restaurants to share Christian testimony (2005, 2011)

Served at Bryan's Junior/Senior Banquet (2011)

"Break for Change" mission trip to inner city Nashville, TN (2006)

Hall parent for the Ladies of Huston, 2nd floor (2005)

Grants & Awards

Citation of Merit: 25 years of outstanding contribution and service at Bryan College (2024).

Awarded merit-based Carl. F. Henry Scholarship from Trinity Graduate School (TGS) and Trinity Evangelical Divinity School (TEDS) at Trinity International University to pursue double Masters of Arts Program in Bioethics and Theological Studies. (2020).

Citation of Merit: Twenty years of outstanding contribution and service at Bryan College (2019).

Citation of Merit: Ten years of outstanding contribution and service at Bryan College (2009).

Faculty Development Award: Develop Immunology course at Bryan College (2006).

Granted 1st Place Prize on an oral presentation at the 19th Annual Graduate Research Day at the University of Maryland (1997).

Research travel grant: Genetic screening of T-DNA generated embryo-lethal mutants of *Arabidopsis Thaliana*, Arizona State University (1992).

F.C. Harrison Award at McGill University – 1 year research appointment in Virology (1989).

Summa Cum Laude Graduate from Towson University (1989).

Independent Student Research Award at Towson University: Cloning and restriction mapping of two DNA bacteriophages isolated from *Streptococcus pyogenes* (1986).

References

Dr. Jamie L Summerville
Professor of Mathematics and Physical Sciences
Chair of the Department of Natural Sciences at Bryan College
jsummervi5879@bryan.edu
423-775-7243

Dr. Kurt Wise
Professor, Natural Science
Director of the Creation Research Center at Truett McConnell University
kwise@truett.edu
706-865-2134, ext. 2301

Dr. Neal Doran
Professor of Biology
Director of Center for Creation Research at Bryan College
ndoran5857@bryan.edu
423-775-7250

Dr. Beth Impson
Professor Emeritus of English at Bryan College
Maribeth.Impson@protonmail.com
423-309-3677

Dr. Crystal Passburg
Served as Assistant Professor of Biology, School of Health Sciences at Liberty University.
Recipient of The President's Award for Excellence in Teaching (PAET) 2022-2024 at Liberty University
(Crystal was my former student and later served as my Teaching Assistant at Bryan College.)
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