

# Timothy D. Walston

---

## EDUCATION

Ph.D., Genetics *University of Wisconsin-Madison*, 2006

M.S., Biology – Cellular and Molecular Biology *University of Wisconsin-La Crosse*, 2000

B.A., Biology *Taylor University*, 1998

## ACADEMIC ADMINISTRATION EXPERIENCE

**Interim Executive Vice President for Academic Affairs and Provost, *Truman State University*, 2025-present**

- Guide leadership team of Associate Provost, Assistant VP, and four Deans
- Lead university of approximately 335 faculty and staff members
- Serve as a member of the President's Executive Leadership Team that guides strategic direction for the university and advises the President
- Redesigned the program review process to add strategic goal setting, encourage timely completion, and engage conversations within academic departments and between departments and the administration
- Met with individual department chairs and their dean to help establish strategic direction for recently reorganized departments
- Encouraged approaches to improve professional development for faculty members and define expectations for non-tenure-track faculty members
- Led one of the academic schools after unexpected departure of the dean until an interim dean could be established
- Chaired search for inaugural Director of the Senator Roy and Abby Blunt SKILLS Center
- Gave campuswide presentations on current trends in higher education

**Dean, Science and Mathematics, *Truman State University*, 2018-2025 (Interim 2017-2018)**

- Guided leadership team of seven department chairs
- Managed school of approximately 85 faculty and staff members
- Launched five new undergraduate majors, a new undergraduate major degree track, three new minors, an online Master's degree, an online graduate certificate, and an undergraduate certificate.
- Supported 1.5 academic buildings and the 400-acre Thousand Hills Farm
- Redesigned the non-tenure-track faculty member review process, developed expectations documents for non-tenure-track faculty, and led revisions of tenure and promotion expectations for all departments in the school
- Ensured all departments were current with their 5-year program reviews and guided the use of those reviews for strategic planning for upcoming years
- Chaired university-wide retention task force at a critical juncture of declining retention and proposed new approaches to retention, including hiring a director of retention, which ultimately led to a major increase in university-wide retention
- Established a school-wide Professional Development hour to give faculty the tools they need for success in their position.
- Developed a Strategic Plan for Diversity, Equity, and Inclusion for the school and lead a faculty committee dedicated to achieving plan goals.

- Led the drafting of Truman's 2021-2025 Strategic Plan and coordinated major revisions of Board of Governor's Code of Policy Chapter 6: Academic Affairs - Faculty and the Faculty Handbook
- Served as a lead member of the university's accreditation team that successfully guided the university to a reaffirmation of accreditation
- Started a university-wide leadership training program.

**Interim Associate Dean, Science and Mathematics, Truman State University, 2016-2017**

- Supported one-year Interim Dean from a non-STEM field
- Managed the science building, farm, and major instrumentation
- Updated hazardous waste policies and practices and inspected all laboratories to identify potential violations

**Chair, Department of Biology, Truman State University, 2015-2017**

- Guided the implementation of a redesigned Biology major curriculum including chairing two sub-committees
- Mentored four new tenure-track Biology faculty members
- Inventoried all departmental equipment, calculated lifespan, and established a replacement cycle and needs assessment
- Reviewed all faculty members in the department and reestablished an appropriate review cycle

**TEACHING APPOINTMENTS**

Professor, *Truman State University*, 2018-present

Associate Professor, *Truman State University*, 2012-2018

Assistant Professor, *Truman State University*, 2006-2012

*Student Mentoring at Truman State University:*

Student Research: Mentored 26 undergraduate students (13 female and 5 minority) and 2 graduate students (1 female)

Teaching Assistants: Mentored 33 undergraduate students (27 female and 4 minority) and 4 graduate students (2 female and 1 minority)

Adjunct Faculty, *A. T. Still University – MOSDOH*, 2013-2016

Adjunct Faculty, *University of Wisconsin-Stevens Point*, 2006

Adjunct Faculty, *Crossroads College*, Rochester, Minnesota, 2003

**PROFESSIONAL DEVELOPMENT**

Teaching with Artificial Intelligence, Auburn University, badge, 2024

Peer Reviewer Training, Higher Learning Commission, 2024

TRU 123: Truman 101: How Truman Functions, Truman State University, 1 credit, 2023.

INDV 125: Introduction to Diversity, Equity, and Inclusion, Truman State University, 1 credit, 2022.

Teaching Online – An Introduction to Online Delivery, Quality Matters, certificate, 2020.

Fundraising for Deans, Academic Impressions, 2019.

**PEER-REVIEWED PUBLICATIONS** (Career total: 16)

- Kramer, B. and **Walston, T.**, An integrated STEM introduction to increase interdisciplinary thinking and research preparation. *Journal of STEM Education* (2019) 20(1) 50-53.
- Walston, T.** and Hardin, J., Visualizing cell contacts and cell polarity in *Caenorhabditis elegans* embryos. Chapter in "Imaging in Developmental Biology", J. Sharpe and R. Wong, editors. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (2010).
- Walston, T.** and Hardin, J., An agar mount for observation of *Caenorhabditis elegans* embryos. *Cold Spring Harbor Protocols* (2010) doi:10/1101/pdb.prot5540.
- Walston, T.** and Hardin, J., Acquisition of 4D DIC microscopic data to determine cell contacts in *Caenorhabditis elegans* embryos. *Cold Spring Harbor Protocols* (2010) doi:10/1101/pdb.prot5541.
- Walston, T.** and Hardin, J., Analysis of 4D DIC microscopic data to determine cell contacts in *Caenorhabditis elegans* embryos. *Cold Spring Harbor Protocols* (2010) doi:10/1101/pdb.prot5542.
- Walston, T.** and Hardin, J., Laser killing of blastomeres in *Caenorhabditis elegans*. *Cold Spring Harbor Protocols* (2010) doi:10/1101/pdb.prot5543.
- Miller, J. and **Walston, T.**, Interdisciplinary training in mathematical biology through team-based undergraduate research and courses. *CBE-Life Sciences Education* (2010) 9(3): 284-289.
- King, R., Maiden, S., Hawkins, N., Kidd, A., Kimble, J., Hardin, J., and **Walston, T.** The N- or C-terminal domains of DSH-2 can activate the *C. elegans* Wnt/ $\beta$ -catenin asymmetry pathway. *Developmental Biology* (2009) 328(2):245-256.
- Hingwing, K., Lee, S., Nykilchuk, L., **Walston, T.**, Hardin, J., and Hawkins, N. CWN-1 functions with DSH-2 to regulate *C. elegans* asymmetric neuroblast division in a  $\beta$ -catenin independent Wnt pathway. *Developmental Biology* (2009) 328(2):234-244.
- Gonzales, P., **Walston, T.**, Camacho, L., Kielar, D., Church, F., Rezaie, A., and Cooper, S. Mutation of the H-helix in antithrombin decreases heparin stimulation of protease inhibition. *Biochimica et Biophysica Acta – Proteins & Proteomics* (2007) 1774(11):1431-1437.
- Lee, J.\*, Marston, D.\*, **Walston, T.**, Hardin, J., Halberstadt, A., and Goldstein, B. Wnt/Frizzled signaling controls *C. elegans* gastrulation by activating actomyosin contractility. *Current Biology* (2006) 16(20):1986-1997.
- Walston, T.\***, Guo, C.\*, Hardin, J., and Hedgecock, E. *mig-5* controls cell fate determination and cell migration in *C. elegans*. *Developmental Biology* (2006) 298(2):485-497.
- Walston, T.** and Hardin, J. Wnt-dependent spindle polarization in the early *C. elegans* embryo. *Seminars in Cell and Developmental Biology* (2006) 17(2):204-213 (Invited review article).
- Walston, T.**, Tuskey, C., Edgar, L., Hawkins, N., Ellis, G., Bowerman, B., Wood, W., and Hardin, J. Multiple Wnt signaling pathways converge to orient the mitotic spindle in early *C. elegans* embryos. *Developmental Cell* (2004) 7(6):831-841.
- Hardin, J., and **Walston, T.** Models of morphogenesis: the mechanisms and mechanics of cell rearrangement. *Current Opinion in Genetics and Development*. (2004) 14(4):399-406 (Invited review article).
- Yang, L., Manithody, C., **Walston, T.**, Cooper, S., and Rezaie, A. Thrombomodulin enhances the reactivity of thrombin with protein C inhibitor by providing both a binding-site for the serpin and allosterically modulating the activity of thrombin. *Journal of Biological Chemistry* (2003) 278(39):37465-37470.

**RECENT EXTERNAL PROFESSIONAL PRESENTATIONS** (55 career total, full list available upon request; underline indicates undergraduate author)

- Walston, T.** and Vieker, J. Grow Your Own: Leadership Development for Faculty and Staff. Seminar presentation. HLC Higher Learning 2026 (*scheduled March 2026*).
- Tucker-Potter, S., Hunsaker, C., Nolan, J., and **Walston, T.** Leveraging Alumni Recognition to Inspire Philanthropy and Drive Engagement. Seminar presentation. CASE District V and VI Annual Conference (2024).
- Kramer, B., Maiden, S., **Walston, T.** An Interdisciplinary Introduction to Research in STEM. Poster presentation. S-STEM Symposium (2022).
- Kramer, B. and **Walston, T.** An Integrated Introduction Increases Interdisciplinarity and Research Preparation in STEM Majors. Workshop presentation. AAC&U Transforming STEM Higher Education Conference (2018).
- Walston, T.** Modeling the Forces Driving Cell Shape in the Early *C. elegans* Embryo. Seminar presentation. Biology Colloquium (student selected), Benedictine College (2017).
- Kramer, B. and **Walston, T.** Gateway to the Future: Preparing Students to Earn a Baccalaureate Degree in Chemistry. Keynote Address. 211<sup>th</sup> Annual Two-Year College Chemistry Consortium Midwestern Conference (2015).
- Kramer, B. and **Walston, T.** STEM ... and Transfer: Solving the Problem. Workshop presentation. Missouri Conference on Transfer and Articulation (2015).

**RECENT SCHOLARLY PRESENTATIONS OF STUDENT MENTEES** (60 career total, full list available upon request; underline indicates undergraduate author)

- Graber, A., **Walston, T.**, and Ostrowski, D. The role of Erythropoietin signaling in neuroprotection. Truman State University Summer Research Symposium (2024)
- Humphrey, C., **Walston, T.**, and Ostrowski, T. Brainstem morphology and antioxidant status in a STZ-induced rat model of Alzheimer's disease. Truman State University Summer Research Symposium (2019).
- Idleburg, M. and **Walston, T.** Application of treatments for maladaptive behaviors and cognitive function of autism to similar aspects of Prader-Willi Syndrome. Truman State University Student Research Conference (2016).
- Rickman, C. and **Walston, T.** Do you want to know? Characterizing the attitudes of 18-24 year olds towards the dissemination of incidental findings. Seminar presentation. Truman State University Student Research Conference (2015).

**GRANT FUNDING (Career total: ~\$3 million)**

- B. Kramer, S. Maiden, and **T. Walston**. National Science Foundation Scholarships in STEM (S-STEM) – “A Scaffolded Learning Community to Increase Self-Efficacy and Persistence in STEM” \$999,915 (2018-2026).
- T. Walston (Principal Investigator)**, J. Miller, and B. Kramer. National Science Foundation Scholarships in STEM (S-STEM) – “Supporting Early Career STEM Majors Through Community and Interdisciplinary Interaction” \$592,024 (2011-2017).
- J. Miller, B. Kramer and **T. Walston**. National Science Foundation Proactive Recruitment in Introductory Science and Mathematics – “Scientists Prepared, Enriched, and Challenged Through Research-based Activities (SPECTRA)” \$1,200,000 (2009-2015).
- T. Walston**, J. Miller, B. Kramer, and K. Aurand de Razo. Truman State University Vision Initiative Program – “Partnership Workshops for STEM Pathway Curriculum Alignment” \$7,953 (2012-2013).

**T. Walston (Principal Investigator),** Z. Ma, J. Herrera, D. Janick-Buckner, and B. Buckner.  
National Science Foundation Major Research Instrumentation – “Acquisition of Confocal Microscopy Instrumentation to Enhance Undergraduate Research at Truman State University” \$196,304 (2009-2012).

### **AWARDS AND HONORS**

Tenure, Truman State University, 2012  
William O'Donnell Lee Advising Award – Truman State University, 2011  
Nominee – 2009, 2011, 2012, 2013  
Research Mentor of the Year Finalist – Truman State University, 2015  
Nominee – 2011, 2012, 2015  
BBB Biology Professor of the Year Runner-up – Truman State University, 2009-2010  
Educator of the Year Semi-finalist – Truman State University, 2010, 2015  
Rada Distinguished Alumni Award Nominee – UW-La Crosse, 2008  
Best Undergraduate Poster (Awarded to Elise Walck) – Society for Mathematical Biology, 2007  
Schlimgen Outstanding Genetics Ph.D. Research Award – Department of Genetics, UW-Madison, 2006  
Vilas Travel Fellowship – Graduate Student Collaborative, UW-Madison, 2005  
John Jefferson Davis Travel Fellowship – Dept. of Zoology, UW-Madison, 2004, 2005  
U.S. Patent No. 6,794,493 – Antithrombin H-helix Mutants, Walston, T., Cooper, S., and Rezaie, A. – United States Patent and Trademark Office, 2004  
Graduate Training Grant Fellowship – Laboratory of Genetics, UW-Madison, 2000 – 2002

### **TRUMAN STATE UNIVERSITY SERVICE**

Executive Leadership Team, 2025-present  
President's Advisory Council, 2017-present  
Dean's Council, 2017-present  
Truman State University Foundation Board of Directors, 2020-2024  
Magruder Hall Building supervisor, 2016-2025  
Truman Leadership Academy, Co-Founder and Co-Facilitator, 2022-present  
HLC Reaccreditation Steering Committee, 2023-present  
HLC Quality Improvement Advising Initiative Steering Committee, 2020-2024  
Tenure and Promotion Task Group, 2021  
Formal Advising Sub-Committee, 2020  
University Strategic Plan Drafting Team, Chair, 2020  
Financial Priorities Committee, 2020-present  
Oversight of Truman's McNair Program, 2022-2023  
SAM Foundation Scholarships Committee, Chair, 2016-2025  
Retention Task Force, Chair, 2018-2019, member 2018-2020  
Title IX Hearing Officer, 2023-2025  
Biology Department Chair, 2015-2017  
Foundation Scholarships Committee, Chair  
Equipment Planning Committee, Chair  
Senior Seminar Waiver Committee, Chair  
Biology BA Learning Plan Committee, Member  
Curriculum Redesign Implementation Committee, Member  
Introductory Biology Implementation Committee, Chair, 2016-2017  
Non-majors General Biology Redesign Committee, Chair, 2017  
DegreeWorks Student Education Planner Committee, 2018-2020

Articulation Agreement Committee, 2017-2019  
 Biology Curriculum Development Committee, Chair, 2012-2015  
 Biochemistry and Molecular Biology Major Committee, 2008-2016  
 Biology New Faculty Mentor, 2015-2016  
 Biology Master of Science Program Committee, 2008-2017  
 Biology Honors Undergraduate Thesis  
     Research Mentor: Terin Budine, 2011-2012; Mario Castellanos, 2015-2016; Lydia Davis, 2016-2017.  
     Committee Member: Hana Khidir, 2008-2009; Jennifer Chen, 2011-2012; Nelson Ugwu, 2013-2014; Reed McClain, 2013-2014  
 McNair Scholars Program Faculty Mentor  
     Kassi Crocker, 2012-2013, Jourdan Howard, 2013-2015, Ciera Utter, 2014  
 Transfer in STEM Conference, Co-Organizer, 2013  
 STEP Scholars Program Steering Committee, 2011-2017;  
 SPECTRA Program Steering Committee, 2009-2015  
 University Admissions Committee, 2009-2015  
 Truman Week Faculty Group, 2014-2015  
 Fishing Club Faculty Advisor, 2010-2013  
 Graduate Council Representative, 2010  
 Mathematical Biology Minor Oversight Committee, 2009  
 Research Learning Communities in Mathematical Biology Mentor, 2007-2009, 2012  
 STEM Talent Expansion Program (STEP) Mentor, 2007-2009  
 Search Committees  
     Biology Department Technician (2008), Ecological Geneticist (2007-2008), Temporary Microbiologist (2012), Molecular Biology (Co-chair, 2015), Search Super-committee (2015), Vice President of University Advancement (2018), Director for International Education (Chair, 2018), Assistant Vice President for Student Success and Institutional Effectiveness (2022), Director of Admissions (2022), Search Chair for seven staff positions while Dean of Science and Mathematics, SKILLS Center Director (Chair, 2025).

### **SCIENTIFIC AND EDUCATIONAL COMMUNITY SERVICE**

Higher Learning Commission Peer Reviewer, 2024-present  
 Campus Christian Fellowship Board Member, 2025-present  
 STEP (STEM Talent Expansion Programs) Office, Truman State University  
     Co-Director or Associate Director, 2009-present  
 CCAS Standing Committee on Liberal Arts Institutions, 2019-2025  
 NSF Proactive Recruitment in Introductory Science and Mathematics (PRISM) PI Meeting, Co-chair and Organizer, 2013-2014  
 AAC&U/PKAL "Engaged STEM and Integrative Learning" National Meeting Organizing Committee, 2011-2012  
 Peer reviewer –  
     HLC peer reviewer for one university, 2025  
     External reviewer for two departments, 2019, 2023  
     National Science Foundation Panel Reviewer, 2009, 2011, 2012(2), 2020, 2021, 2022  
     Peer reviewer for six journal manuscripts, 2007(2), 2010, 2015, 2018, 2020  
     Peer reviewer for six textbook revisions, 2007(2), 2010, 2012, 2013, 2016  
 Member, American Association for the Advancement of Science, 1998-present  
 Member, Genetics Society of America, 2003-2011, 2015, 2017

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]