

REBECCA J. FLIETSTRA
Curriculum Vitae

Contact Information

Work address: Biology Department
Point Loma Nazarene University
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Education

1990: B.A., Biology, Calvin College, Grand Rapids, MI
1995: Ph.D., Physiology, University of Kansas Medical Center, Kansas City, KS;
"Lactogenic Hormones of the Pituitary and Placenta"
1996: Post-Doctoral Fellow, Pharmacology, University of Kansas Medical Center,
Kansas City, KS.

Teaching Experience

Spring 1992-95: Laboratory Assistant, University of Kansas Medical Center.
Fall 1992-1993: Lecturer, University of Kansas Medical Center.
Spring 1993-95: Tutor, private and for Minority Program, University of Kansas
Medical Center.

1996-1997: Visiting Assistant Professor, Truman State University
Biology 100, Introductory Biology (4 cr.)
Biology 315, Animal Physiology (4 cr.)
Biology 518/615, Endocrinology (3 cr.)
Biology 545, Senior Seminar (1 cr.)

1997-2002: Assistant Professor, Point Loma Nazarene University
2002-2006: Associate Professor, Point Loma Nazarene University
Biology 101, Human Biology and Bioethics (4 cr.)
Biology 130, Human Anatomy and Physiology I (4 cr.)
Biology 140, Human Anatomy and Physiology II (4 cr.)
Biology 302, Scientific Issues and Society (4 cr.)
Biology 420, Vertebrate Physiology (3 cr.)
Biology 470, Neuroscience (3 cr.)
Biology 497, Biology Seminar (1 cr.)

2006-present: Full Professor, Point Loma Nazarene University
Biology 130, Human Anatomy and Physiology I (4 cr.)
Biology 140, Human Anatomy and Physiology II (4 cr.)
Biology 420, Vertebrate Physiology (3 cr.)
Biology 470, Neuroscience (3 cr.)

Guest Lectures

Fall 1999:	4 lectures, Psychology 321, Abnormal Psychology, PLNU
Oct. 11, 2000:	Philosophy 451, Religion and Science, "Neuroscience and Religion," PLNU
Feb. 9, 2001:	Nursing 450, Nursing of Communities: Mental Health Focus, "Alzheimer's Disease," PLNU
Jan. 25, 2002:	Sociology 360, Ethnic and Status Groups, "The Study of Human Diversity," PLNU
Sept. 24, 2002:	Psychology 322, History of Psychology, "Genetics and the Brain," PLNU
Jan. 27, 2003:	Psychology 360, Human Sexuality, "Biology of Gender," PLNU
January, 2005:	Psychology 360, Human Sexuality, "Biology of Gender," PLNU
Sept. 13, 2005	University Now, "Animal Research: History and Ethical Considerations," PLNU
2005-present	Nursing 450, Nursing of Communities: Mental Health Focus, "Gender and Sexual Differentiation", PLNU (spring & fall semesters)
Summer 2012	Three lectures on Bone Tissue and Development for the College Bound Program

Student Mentoring

Summer 1998:	Principle Investigator, Undergraduate Summer Research at Point Loma Nazarene University; "Prolactin Levels in Pregnant Lactating Rats" with Jessica Funke and Shannon Hudson.
Summer 1999:	Principle Investigator, Undergraduate Summer Research at Point Loma Nazarene University; "Prolactin Levels in Pregnant Lactating Rats" with Jessica Funke and Heather Jayne.
Spring 1999, 2000, 2005:	Discussion leader, PLNU Student/Faculty Science/Religion Discussion Group, sponsored by the Wesleyan Center, Point Loma Nazarene University.
Summer 2000:	Principle Investigator, Undergraduate Summer Research at Point Loma Nazarene University; "Prolactin Levels in Pregnant Lactating Rats" with Heather Jayne and Kay Jacobs.
2001-2002:	Member, Graduation with Distinction Project Committee for Rebecca M. Jones, Point Loma Nazarene University; "The Influence of Fatigue on Dynamic Balance and Vertical Power in Surfing and Basketball Athletes".
2002-2003:	Member, Graduation with Distinction Project Committee for Emily Altick, Point Loma Nazarene University; "Influence and Interaction of Music and Sleep Deprivation on Reading Comprehension and Reaction Time of College-Age Adults."
2005-2006:	Member, Graduation with Distinction Project Committee for Justin Kerk, Point Loma Nazarene University; "Using Reinforcement Learning Algorithms on Monkey Intelligence Tests."
2009-2010	Member, Honors Project Committee for Karisa Archer
2009-2010	Member, Honors Project Committee for Kristen Moser

2009-2010	Member, Honors Project Committee for Alex Brown
2011-2012	Member, Honors Project Committee for Hannah Green
2013-2014	Member, Honors Project Committee for Katie Mitchell, The Epidemic of ACL injury in Female Athletes”

Research and Professional Development

Fellowships and Awards

1989-90:	Student Fellow, Calvin Center for Christian Scholarship: “Gender Roles: Stability and Change within the Context of a Christian World View”
1991-1994:	National Science Foundation Graduate Student Fellowship
1998-99:	Research and Special Projects (RASP) Grant, “Neuroscience Brain and Mind”, from PLNU (\$400)
1999:	John Templeton Foundation Science and Religion Course Program, “Biology 470 Neuroscience: Brain, Mind and Soul” (\$10,000)
1999-2000:	RASP Grant, “Free Will Theism, Consciousness and Synaptic Plasticity”, from PLNU (\$700)
1999-2000:	Teaching Development Award with Dr. Kenneth Aring, “Biology 302 Scientific Issues and Society,” from PLNU Alumni Association (\$2,000)
1999-2001:	John Templeton Seminars on Science and Religion at Oxford, “The Impact of Scientific Theories of Brain Function on the Christian Doctrines of Divine Election and Free Will,” from John Templeton Foundation and Council for Christian Colleges and Universities (\$6000)
2000-2001:	The 2000-2001 Templeton/ASA Lecture Series, Dr. Malcolm Jeeves (psychology) and Dr. John Haught (theology), (\$4,000)
Fall 2001:	Wesleyan Grant, “A Natural Human Capacity for Community”, from Wesleyan Center for Twenty-First Century Studies, PLNU (3 credit hours release time)
2001-2002:	RASP Grant, “Biopac System for Vertebrate Physiology”, from PLNU (\$2,390)
Summer 2003:	Wesleyan Grant, “Biology, Moral Behavior, and the Means of Grace,” from Wesleyan Center for Twenty-First Century Studies, PLNU (\$500)
2003-2004:	Sabbatical, “Homo imago: Human biology and the divine image,” PLNU
Summer 2004:	Seminars in Christian Scholarship, “Works of Love: Scientific and Theological Perspectives on Altruism” led by Stephen Post, Calvin College (\$2000)
2005:	Teaching Development Award, “Biology 130/140 and Biology 420,” from PLNU Alumni Association (\$2000)
2007:	Curriculum Development Project, “Bone Models for Human Anatomy and Physiology 1 (Bio 130)”, from PLNU Alumni Association (\$2000)
2011:	“Biology and the Christian Faith”, from Scientists in Congregations (\$11,500)
2012:	Curriculum Development Project, “Anatomical Models for Biology Courses”, from PLNU Alumni Association (\$2000)
2014:	Curriculum Development Project, “Real Bones for Human Anatomy Labs”, from PLNU Alumni Association (\$2000)

Memberships

1996-1998: Society for the Study of Neuroscience
1997-2002: American Scientific Affiliation (ASA)
1997-2000: Association for Biology Laboratory Education (ABLE)
1999-2000: American Association for the Advancement of Science (AAAS)
1999-2003: Society for the Study of Psychology and Wesleyan Theology (SSPWT)

Meetings Attended

1993: Society for the Study of Reproduction
1991, 1995, 1996: Society for Neuroscience
January 1998: Human Selves & Transcendent Experiences: A Dialogue Between Science and Religion, University of California, San Diego, CA
March 1998: Consultation on Religion and Science, Nazarene Theological Seminary, Kansas City, MO
June 1998: Science & the Spiritual Quest, University of California, Berkeley, CA
January 1999: Science & Religion Course Program Winter Workshop, Center for Theology & the Natural Sciences, Berkeley, CA
February 1999: Companions & Apprentices Conference, The Wesleyan Center for Twenty-First Century Studies of Point Loma Nazarene University, San Diego, CA
May 1999: Science & Religion Course Program Summer Workshop, Center for Theology & the Natural Sciences, Berkeley, CA
October 2000: "Work Done, Work Begun": Creating Sacred Spaces, PLNU, San Diego, CA
January 2001: "The Brain and Teaching Technology". e-reflections, sponsored by the Wesleyan Center, PLNU, San Diego.
April 2001: Panel respondent to "Why the World Matters to Wesleyans" by Dr. Michael Lodahl, sponsored by the Wesleyan Center, PLNU.
November 2005: "The 'Nature' of Belief: Evolutionary Explanation, Biological Function, and Divine Purpose," Calvin College, Grand Rapids, MI.

Presented Papers and Responses

March 1999: Pedagogical Respondent for Science and Religion Case Histories Conference, Center for Theology & the Natural Sciences and American Association for the Advancement of Science, Berkeley, CA
March 2000: "Consciousness, Synaptic Plasticity, and the Means of Grace." Society for the Study of Psychology and Wesleyan Theology, 2nd Annual Conference, Asbury College, Kentucky.
January 2001: "The Brain and Teaching Technology." e-reflections, sponsored by the Wesleyan Center, PLNU.

- April 5, 2001: Panel respondent to "Why the World Matters to Wesleyans" by Dr. Michael Lodahl, sponsored by the Wesleyan Center, PLNU.
- June 2001: "Biological Contingency," response to William A. Dembski. Association of Christians in the Mathematical Sciences, Calvin College, Grand Rapids, MI.
- September 2001: "A Natural Human Capacity for Community." Christian Scholarship... For What? Calvin College, Grand Rapids, MI.
- April 12, 2002: "Biology of Grace." God of Nature and of Grace: Wesleyan Perspectives on Creation, PLNU.
- August 3, 2002 "Evolution and the Golden Rule." American Scientific Affiliation Annual Conference, Pepperdine University, California.
- March 20, 2003 "Being and Becoming Moral." Society for the Study of Psychology and Wesleyan Theology, Annual Conference, Asbury, Kentucky.
- March 12, 2004 "The Human Creature," Christian Perspectives in Science Seminar, Calvin College, Grand Rapids, MI.
- April 30, 2004 "Contingencies in Brain Development." Biology Department Seminar, Calvin College, Grand Rapids, MI.
- February 17, 2005 "Salvation, Sanctification, and Non-Reductive Physicalism," panel respondent to Warren Brown, Fuller Seminary, Pasadena, CA.
- November 2007 "A Neuroscience of the Incarnation," Christian Neuroscience Society
- March 2008 "Rooting Evolution in Grace," Sighs, Signs and Significance Conference, SSPWT/WPS
- April 2008 "The Human Need for Love," Azusa Pacific University
- October 2010 "A Creation Redeemed by Incarnation", Exploring the Sanctity of Nature, A Fetzer Institute/Kirbas Institute Project, Kalamazoo, MI

Published Abstracts and Papers

- Flietstra RJ, Voogt JL 1993 *Rat choriocarcinoma cells partially inhibit suckling-induced prolactin release*. Student Research Forum, abstract 14.
- Flietstra RJ, Voogt JL 1993 *Rat choriocarcinoma cells partially inhibit suckling-induced prolactin release*. Society for the Study of Reproduction, abstract 26.
- Flietstra RJ, Voogt JL 1994 *Hypothalamic implants of prolactin or placental lactogen-I inhibit suckling-induced prolactin release*. Student Research Forum, abstract 82.
- Flietstra RJ, Voogt JL 1995 *Rat choriocarcinoma cells are capable of initiating lactation in virgin rats exposed to pups*. Student Research Forum, abstract 11.
- Flietstra RJ, Voogt JL 1995 *Tumors secreting placental lactogen-I (PL-I) or hypothalamic implants of lactogenic hormones inhibit suckling-induced prolactin but not the ante-partum prolactin surge*. Society for Neuroscience, abstract 639.2.
- Flietstra RJ, Voogt JL 1996 *Rat placental lactogens initiate and maintain lactation yet inhibit suckling-induced prolactin release*. *Endocrine*, 5:103-110.

- Flietstra RJ, Voogt JL 1997 *Lactogenic hormones of the placenta and pituitary inhibit suckling-induced prolactin (PRL) release, but not the ante-partum PRL surge.* PSEBM, 214:258-264.
- Flietstra RJ, Levant B 1996 *Simultaneous comparison of D₂/D₃ receptor affinity of novel D₃-selective drugs in rat brain.* Society for Neuroscience, abstract 329.16.
- Flietstra RJ, Levant B 1998 *Comparison of D₂ and D₃ dopamine receptor affinity of dopaminergic compounds in rat brain.* Life Sci, 62 (20): 1825-1831.
- Bancroft GN, Morgan KA, Flietstra RJ, Levant B 1996 *Binding of [³H]PD 128907, a putatively selective ligand for the D₃ dopamine receptor, in rat brain: a receptor binding and quantitative autoradiographic study.* Neuropsychopharmacology, 18 (4): 305-316
- Funke J, Hudson S, Flietstra RJ 1999 *Prolactin levels in concurrently pregnant and lactating rats.* West Coast Biological Sciences Undergraduate Research Conference, abstract P17
- Jayne H, Funke J, Flietstra RJ 2000 *The role of prolactin in concurrently pregnant and lactating Long-Evans rats.* West Coast Biological Sciences Undergraduate Research Conference, abstract S-13.
- Flietstra RJ 1998 *The Design Debate: A Misguided Quest for Proof.* Books and Culture, 4 (5): 34-37.
- Flietstra RJ 2001 *In Praise of Our Animal Natures: A Conversation With Mary Midgley.* Research News and Opportunities in Science and Theology, 1 (7): 24-25.
- Flietstra RJ submitted *Review of "Tower of Babel" by Robert T. Pennock.* Zygon.
- Flietstra RJ 2002 *William Dembski and John Haught Spar on Intelligent Design.* Research News and Opportunities in Science and Theology, 2 (9): 14-15.
- Flietstra RJ 2002 *'Exploring the Evolution of Being Human,' A Review Essay.* Research News and Opportunities in Science and Theology, 3 (1): 17, 26.
- Flietstra RJ 2002 *World Religions Seek Peace Through Science: Scholars Gather at Spain's Alhambra Palace.* Research News and Opportunities in Science and Theology, 3 (2); 1, 28.
- Flietstra RJ 2002 *Pioneering Some Common Questions: ASA Conference Highlights Shared Approaches to Science-and-Religion.* Research News and Opportunities in Science and Theology, 3 (2); 3.
- Flietstra RJ 2003 *Tradition Comforts as Nature Changes: A Conversation with Noah Efron.* Research News and Opportunities in Science and Theology, 3 (10); 3, 25.
- Flietstra RJ 2009 "Rooting Evolution in Grace," *Divine Grace and Emerging Creation: Wesleyan Forays in Science and Theology of Creation*, Thomas J. Oord, ed. (Pickwick Publications, May 2009), pp. 156-169.
- Flietstra RJ 2009 "William Dembski and John Haught Spar on Intelligent Design," *The Evolution Wars: A Guide to the Debate*, 2nd ed., Michael Ruse (Grey House Publishing: 2009), pp. 437-442.
- Flietstra RJ 2011 "A Creation Redeemed by Incarnation," *This Sacred Earth: Scientific and Religious Perspectives on Nature and Humanity's Place Within It*, Paul J. Kirbas, ed. (Wyndham Hall Press: 2011).

Flietstra RJ 2013 "Choosing Motherhood: Adoption and the Single Life," Results May Vary, eds., Linda Beail and Sylvia Cortez Masyuk, eds (Wipf & Stock: 2013), pp. 94-99.

Other Activities

1997-present: Participant, PLNU Faculty Science/Religion Discussion Group.
Spring 1999: Reviewer, John Templeton Foundation \$100,000 Grant For Research, Writing, and Publication Exploring the Constructive Interaction of Science and Religion

Service to Department and University

1997-present: Member, Institutional Animal Care Committee
1997-2000: Member, Eating Behavior Resource Team
1998-2003: Chair, Institutional Animal Care Committee
1998-present: Member, Pre-Medicine Advisory Committee.
1998-1999: Participant, Rhodes Consultation on Church-Relatedness
1999-2002: Faculty Advisor for PLNU chapter of Tri-Beta (biology honors society)
1999-present: Faculty Co-Advisor for Pre-Physical Therapy and Allied Health
1999-present: Member, Women's Studies Steering Committee
2000-2003: Member, Enrollment Management Committee, PLNU
2004-present: Member, Center for Justice and Reconciliation Steering Committee, PLNU
2004-present: Member, PLNU Resource Taskforce
2004-2005: Chair, WASC committee on Standards One and Three
2005-2006: Member, Faculty Council
2011-present: Member, Faculty Status Committee (chair, 2011-2013)

Church Service

1999-present: Member, First Presbyterian Church of San Diego (PCUSA).
1999-2002: Member, New Dawn Singers, First Presbyterian Church of San Diego.
2000-2003: Teacher/facilitator for adult Sunday School class, First Presbyterian Church of San Diego.
2001-2002: Member, Christian Education Committee, First Presbyterian Church of San Diego