

TIMOTHY DAVID JOHNSTON

Present appointment:

Professor, Department of Psychology, University of North Carolina at Greensboro.
Dean Emeritus, College of Arts & Sciences. *On leave, 2016-17 academic year.*

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Education:

Ph.D.	1979	University of Connecticut	(Biobehavioral Sciences)
M.S.	1974	University of Wisconsin	(Zoology)
B.Sc.	1970	University of Edinburgh	(Ecological Science; Honours in Wildlife Management)

Previous positions:

2002-2016 Dean, College of Arts and Sciences, University of North Carolina at Greensboro.
1997-2002 Head, Department of Psychology, University of North Carolina at Greensboro.
1990-1997 Associate Dean, College of Arts and Sciences, and Director of the Center for Critical Inquiry in the Liberal Arts, University of North Carolina at Greensboro.
1989-1990 Director of Graduate Studies, Department of Psychology, University of North Carolina at Greensboro.
1983-1992 Assistant Professor (1983-88) and Associate Professor (1988-92), Department of Psychology, University of North Carolina at Greensboro.
1982-1983 Lecturer and Research Associate, Department of Psychology, University of North Carolina at Greensboro.
1980 (spring) Visiting Assistant Professor, Institute of Animal Behavior and Department of Psychology, Rutgers University, Newark, New Jersey.
1978-1982 Postdoctoral Research Fellow (1978-1980) and Research Associate (1980-1982), Research Section, North Carolina Division of Mental Health, Raleigh.

Professional activities:

Council of Colleges of Arts & Sciences:

- President, 2014-15; Immediate Past-President, 2015-16
- Search Committee for Executive Director, 2015-16
- Planning Committee, 50th Anniversary Celebration, 2014-15
- Executive Committee of Board of Directors, 2013-16
- President-Elect, 2013-14
- Board of Directors, 2011-16
- Director, Seminar for Department Chairs, St.Louis, July 2011
- Co-Director, Seminar for Department Chairs, Charlotte, NC, February 2011
- Committee on Research Universities, 2008-11

Co-Convenor, UNC System Workshop for Department Chairs, 2012-14

National Science Foundation Review Panel (Physiology & Ethology Program), 1996-2000.

Editorial Board Member, *Ecological Psychology* (1988-91), *Bird Behavior* (1995-2000)

Occasional reviewer for *Developmental Psychobiology*, *International Journal of Comparative Psychology*, *Developmental Review*, *Developmental Psychology*, *Journal of the Gilded Age and Progressive Era*, *Psychological Science*.

Occasional reviewer of grant proposals for the National Science Foundation (Animal Behavior Program).

Reviewer of textbook manuscripts for Harper & Row, Prentice-Hall, Brooks-Cole, Holt, Reinhart & Winston, and Lawrence Erlbaum Associates.

Society memberships: American Association for the Advancement of Science, History of Science Society, Council of Colleges of Arts and Sciences, Association for Psychological Science, Cheiron (International Society for the History of Social and Behavioral Sciences).

Invited presentations (since 1990):

- 2016 “Why Books?” Phi Beta Kappa Lecture, UNC Greensboro (April)
- 2015 “Re-Imagining the Liberal Disciplines in Our Second Half-Century,” Presidential Address, Council of Colleges of Arts & Sciences, Washington, DC (November)
“How The Liberal Art and Sciences Are Supported by CCAS,” Texas Association of Deans of Liberal Arts & Sciences, Sam Houston State University, Huntsville, TX (February)
- 2012 “Institutional Support for Equity in Tenure, Promotion, and Career Advancement.” ADVANCE Charting Your Path Conference, NC A&T State University, Greensboro, NC. (May)
- 2009 Comments on two papers. Twelfth International Institute on Developmental Science, Center for Developmental Science, Chapel Hill, NC. (September)
- 2005 “Including the Genes in Developmental Theory.” Conference on Connectionist & Dynamic Systems Approaches to Development.” University of Iowa (June)

- “Genetic Contributions to Behavioral Development.” Graduate Seminar Presentation, Department of Psychology, Indiana University, Bloomington (April)
- “Snakes in Iceland: Three Pioneers of Comparative Psychology in America.” Department of Psychology, Indiana University, Bloomington (April)
- 2003 “Understanding Evolution as Change in the Developmental System.” Second Annual Sandhills Regional Psychology Conference, Fayetteville, NC. (March)
- 2002 “How to Make Behavior Genetics Truly Developmental.” Workshop on Behavior Genetics, Dalhousie University, Halifax, Nova Scotia, Canada. (November)
- “Gene Function in Development.” Center for Developmental Science, Chapel Hill, NC. (January)
- 2000 “What Do Genes Do?” Third International Institute on Developmental Science, Center for Developmental Science, Chapel Hill, NC. (May)
- “Teaching College Freshmen.” Catawba College, Salisbury, NC. (August)
- 1996 “Peace of Mind Guaranteed (Not!).” Honors Convocation Address, UNC Greensboro. (May)
- 1994 Discussant on four papers at APA Conference on *Changing Ecological Approaches to Development: Organism-Environment Mutualities*. University of Connecticut, Storrs. (October)
- 1992 “The Contribution of Weismann’s Germ-Plasm Theory to the Nature-Nurture Dichotomy in Classical Ethology.” Developmental Psychobiology Program, SUNY at Binghamton. (March)
- “A Developmental Theory of the Evolution of Behavior.” Department of Biology, SUNY at Binghamton. (March)
- 1991 “Historical Notes on the Inheritance of Behavior: Weismann’s Role in Hardening the Nature-Nurture Dichotomy.” Science Studies Program, Virginia Polytechnic Institute and University. (April)
- 1990 “A Developmental Theory of the Evolution of the Brain and Behavior.” Department of Psychology, Virginia Polytechnic Institute and University. (February)

External Grants and Contracts:

- 1996 *North Carolina Alliance for Minority Participation in Science and Mathematics*. National Science Foundation, Division of Undergraduate Education. (\$123,000 subcontract from North Carolina A&T State University)
- 1995 *The Nature of Science and Mathematics: A Capstone Experience for Middle-Grades Preservice Science Teachers*. National Science Foundation, Division of Undergraduate Education. (\$100,000)
- 1995 *Research Internships for Middle-Grades Science Teachers*. North Carolina Department of Public Instruction (Goals 2000). (\$55,000 subcontract from Guilford County Schools; renewed in same amount, 1996)

PUBLICATIONS

1. Books:

Johnston, T. D., & Pietrewicz, A. T. (Eds.) 1985. *Issues in the Ecological Study of Learning*. Hillsdale, N.J.: Erlbaum Associates.

2. Book chapters:

Johnston, T. D. 2015. Gilbert Gottlieb and the biopsychosocial perspective on developmental issues. In S. D. Calkins (ed.), *Handbook of infant development: Biopsychosocial perspectives*, pp. 11-24. Guilford Publications.

Johnston, T. D. 2010. Developmental systems theory. In M. S. Blumberg, J. H. Freeman, & S. R. Robinson (eds.), *Oxford handbook of developmental behavioral neuroscience*, pp. 12-29. New York: Oxford University Press.

Johnston, T. D., & Lickliter, R. 2009. A developmental systems theory perspective on psychological change. In J. P. Spencer, M. S. C. Thomas, & J. L. McClelland (eds.). *Toward a unified theory of development: Connectionism and dynamic systems theory reconsidered*, pp. 285-296. New York: Oxford University Press.

Johnston, T. D. 2008. Genes, experience, and behavior. In A. Fogel, B. J. King, & S. G. Shanker (eds.), *Human development in the 21st century: Visionary ideas from systems scientists*, pp. 18-24. Cambridge: Cambridge University Press.

Johnston, T. D. 2001. Towards a systems view of development: An appraisal of Lehrman's critique of Lorenz. In S. Oyama, P.E. Griffiths, & R.D. Gray (eds.), *Cycles of contingency: Developmental systems and evolution*, pp. 15-23. Cambridge, Mass.: MIT Press.

Johnston, T. D. 1994. Intellectual engagement in the introductory classroom. In William E. Cain, (ed.), *Teaching the conflicts: Gerald Graff, curricular reform, and the culture wars*, pp. 147-162. New York: Garland Press.

Johnston, T. D. 1985. Environmental constraints and the natural context of behavior: Grounds for an ecological approach to the study of infant visual perception. In G. Gottlieb & N. A. Krasnegor (eds.), *Measurement of audition and vision during the first year of postnatal life: A methodological overview*, pp. 91-108. Norwood, N.J.: Ablex.

Johnston, T. D. 1985. Conceptual issues in the ecological study of learning. In T. D. Johnston & A. T. Pietrewicz (eds.), *Issues in the ecological study of learning*, pp. 1-24. Hillsdale, N.J.: Erlbaum Associates.

Johnston, T. D. 1982. Selective costs and benefits in the evolution of learning. In J. S. Rosenblatt, R. A. Hinde, C. Beer, & M.-C. Busnel (eds.), *Advances in the study of behavior*, Volume 12, pp. 65-106. New York: Academic Press. [Reprinted as one of 12 "classic papers" in R. K. Belew & M. Mitchell, (eds.), *Adaptive individuals in evolving populations: Models and algorithms*. Proceedings of the Santa Fe Institute Studies in the Sciences of Complexity, Vol. 26, Reading, Mass.: Addison-Wesley, 1996.]

- Johnston, T. D. 1982. Learning and the evolution of developmental systems. In H. C. Plotkin (ed.), *Learning, development, and culture: Essays in evolutionary epistemology*, pp. 411-442. Chicester: John Wiley & Sons.
- Johnston, T. D., & Turvey, M. T. 1980. A sketch of an ecological metatheory for theories of learning. In G. H. Bower (ed.), *The psychology of learning and motivation*, Volume 14, pp. 147-205. New York: Academic Press.

3. Research articles:

- Logan, C. A., & Johnston, T. D. 2007. Synthesis and separation in the history of ‘nature’ and ‘nurture.’ *Developmental Psychobiology*, **49**:758-769
- Johnston, T. D. 2007. The role of genes in probabilistic epigenesis: Rethinking the nature of ‘nature.’ *European Journal of Developmental Science*, **1**:122-130.
- Johnston, T. D. 2003. Three pioneers of American comparative psychology, 1843-1890: Lewis Henry Morgan, John Bascom, and Joseph LeConte. *History of Psychology*, **6**:14-51.
- Johnston, T. D. 2002. An early manuscript in the history of American comparative psychology: Lewis Henry Morgan’s “Animal Psychology” (1857). *History of Psychology*, **5**:323-355.
- Johnston, T. D., & Edwards, L. 2002. Genes, interactions, and the development of behavior. *Psychological Review*, **109**:26-34.
- Johnston, T. D. 1995. The influence of Weismann’s theory of the germ plasm on the dichotomy between innate and learned behavior. *Journal of the History of the Behavioral Sciences*, **31**:115-128.
- Tomlinson, W. T., & Johnston, T. D. 1991. Hamsters remember spatial information derived from olfactory cues. *Animal Learning and Behavior*, **19**:185-190.
- Turpin, B., & Johnston, T. D. 1991. Paradoxical effects of experience with food size and flavour in golden hamsters (*Mesocricetus auratus*). *Animal Behaviour*, **42**:103-110.
- Johnston, T. D., & Gottlieb, G. 1990. Neophenogenesis: A developmental theory of phenotypic evolution. *Journal of Theoretical Biology*, **147**:471-495.
- Turpin, B., Johnston, T. D., & Fulk, K. R. 1988. Sibling inhibition of hoarding in postweaning hamster pups (*Mesocricetus auratus*). *Developmental Psychobiology*, **21**:467-476.
- Johnston, T. D. 1988. Developmental explanation in the ontogeny of birdsong: Nature-nurture redux. *Behavioral and Brain Sciences*, **11**:617-663. (Target article with commentary)
- Johnston, T. D. 1987. The persistence of dichotomies in the study of behavioral development. *Developmental Review*, **7**:149-172.
- Johnston, T. D., & Gottlieb, G. 1985. Effects of social experience on visually imprinted maternal preferences in Peking ducklings. *Developmental Psychobiology*, **18**:262-271.
- Johnston, T. D., & Gottlieb, G. 1985. Development of visual control of maternal preferences in Peking ducklings. *Developmental Psychobiology*, **18**:23-36.
- Johnston, T. D. 1985. Learning and evolution. *Science Progress (Oxford)*, **69**:443-460.

- Johnston, T. D. 1981. Contrasting approaches to a theory of learning. *Behavioral and Brain Sciences*, **4**:125-173. (Target article with commentary)
- Johnston, T. D., & Gottlieb, G. 1981. Development of visual species identification in ducklings: What is the role of imprinting? *Animal Behaviour*, **29**:1082-1099.
- Johnston, T. D., & Gottlieb, G. 1981. Visual preferences of imprinted ducklings are altered by the maternal call. *Journal of Comparative and Physiological Psychology*, **95**:663-675.
- Johnston, T. D. 1980. Compensation for substrate elasticity in the kinematics of leaping by infant pigtailed macaques. *Brain Research*, **184**:467-480.
- Wilson, M., Keys, W., & Johnston, T. D. 1979. Middle temporal cortical visual area and visuospatial function in *Galago senegalensis*. *Journal of Comparative and Physiological Psychology*, **92**:247-259.
- Johnston, T. D. 1976. Theoretical considerations in the adaptation of animal communication systems. *Journal of Theoretical Biology*, **57**:43-72.
- 4. Short articles, notes, commentaries, and book reviews:**
- Johnston, T. D. 2003. Genetic contributions to behavior are ubiquitous and molecular: Invited commentary on Ehrlich and Feldman. *Current Anthropology*, **44**:99.
- Johnston, T. D. 2003. Advancing the ecological agenda in development science: Invited commentary on Wagman and Miller. *Developmental Psychobiology*, **42**:357-361
- Johnston, T. D. 1998. Review of *Foundations of Animal Behavior: Classic Papers with Commentaries*, edited by Lynne D. Houck & Lee C. Drickamer. *Journal of the History of the Behavioral Sciences*, **34**:69-70.
- Johnston, T. D. 1997. Commentaries on chapters by R. P. Cooper, D. B. Miller, P. Zukow-Goldring, and J. Green & G. Gustavson in C. Dent-Read and P. Zukow-Goldring (eds.), *Evolving Explanations of Development: Ecological Approaches to Organism-Environment Systems*, pp. 87-89, 251-254, 509-513, 547-549. Washington, D.C.: American Psychological Association.
- Johnston, T. D. 1994. Scientists watch scientists studying animals. [Book review of *The Inevitable Bond: Examining Scientist-Animal Interactions*, edited by H. Davis & D. Balfour]. *Contemporary Psychology*, **39**:717-718.
- Johnston, T. D. 1994. Teaching and research: No simple distinction. *The Academic Leader*, **10(1)**:3-4.
- Johnston, T. D. 1994. Genes, development, and the 'innate' structure of the mind. [Book review of *Beyond Modularity: A Developmental Perspective on Cognitive Science*, by Annette Karmiloff-Smith]. *Behavioral and Brain Sciences*, **17**:721-722.
- Johnston, T. D. 1991. On unmodifiability of views and the innateness of behavior -- response. *Behavioral and Brain Sciences*, **14**:351-353.
- Johnston, T. D., & Toth, J. P. 1989. Piagetian stages and the anagenetic study of mental evolution. *Behavioral and Brain Sciences*, **12**:600-601.

- Johnston, T. D., & Sharp, J. A. 1988. Misrepresenting the law of effect and ethology as its alternative. *Behavioral and Brain Sciences*, **11**:458-459.
- Johnston, T. D. 1987. Amplifying sociobiology's hollow ring. [Review of *Vaulting ambition* by Philip Kitcher]. *Behavioral and Brain Sciences*, **10**:78-79.
- Johnston, T. D. 1987. Logical and ecological inadequacies in Macphail's account of learning and intelligence. *Behavioral and Brain Sciences*, **10**:669-670.
- Johnston, T. D. 1984. Development and the origin of behavioral strategies. *Behavioral and Brain Sciences*, **7**:108-109.
- Johnston, T. D. 1983. The ecological approach revisited. *Behavioral and Brain Sciences*, **6**:186-189.
- Johnston, T. D. 1982. Book review of *The roots of human behavior* by M. A. Hofer. *Developmental Psychobiology*, **15**:89-91.
- Johnston, T. D. 1982. Concepts of development in the mathematics of cultural change. *Behavioral and Brain Sciences*, **5**:87.
- Gottlieb, G., Johnston, T. D., & Scoville, R. P. 1982. Conceptions of development and the evolution of behavior. *Behavioral and Brain Sciences*, **5**:284.
- Johnston, T. D. 1981. Book review of *Species identity and attachment*, edited by M. A. Roy. *Animal Behaviour*, **29**:315.
- Johnston, T. D. 1981. 'Species-typicality': Can individuals have typical parts? *Behavioral and Brain Sciences*, **4**:292-293.
- Johnston, T. D., & Gottlieb, G. 1981. Epigenesis and phylogenesis: reordering the priorities. *Behavioral and Brain Sciences*, **4**:243.
- Johnston, T. D. 1979. Critique of Whiten's *Operant Studies of Pigeon Orientation and Navigation*. *Animal Behaviour*, **27**:1273-1274.
- Johnston, T. D. 1979. Book review of *Behavior and evolution*, by Jean Piaget. *Developmental Psychobiology*, **12**:633-637.

Contributed papers at meetings (since 1990):

- "Using the *CCAS Standards of Practice* to support improvement initiatives." Association of American Colleges & Universities, Washington, DC, January, 2015. (With Anne-Marie McCartan, Lori Vermeulen, and Pat Mosto.)
- "Community-engaged scholarship in tenure and promotion." Council of Colleges of Arts and Sciences, New Orleans, Louisiana, November 2010.
- "Research support from the Dean's office." Council of Colleges of Arts and Sciences, New Orleans, Louisiana, November 2010.
- "Undergraduate research at the University of North Carolina at Greensboro." Council of Colleges of Arts and Sciences, Chicago, Illinois, November 2007.
- "Academic program reviews." Council of Colleges of Arts and Sciences, San Antonio, Texas, November 2004.

- “American comparative psychology, 1843-1890.” Cheiron (International Society for the History of Social and Behavioral Sciences), Eugene, Oregon, June 2002.
- “Working with difficult faculty: A case study session.” (Organizer and moderator.) Council of Graduate Departments of Psychology, San Antonio, Texas, February 2001.
- “An interactionist model of behavioral development that incorporates genetic influences.” International Society for Developmental Psychobiology, Alexandria, Virginia, November 1993.
- “One that’s working: Writing across the curriculum at the University of North Carolina at Greensboro” (with Karen Meyers & Bruce Kirchoff). Regional Conference on Writing Across the Curriculum, Charleston, South Carolina, February 1993.
- “Spatial orientation using olfactory and visual cues by hamster pups during the preweaning period.” International Society for Developmental Psychobiology, Cambridge, England, July 1990.

UNIVERSITY SERVICE

Administrative appointments:

Dean, College of Arts and Sciences, 2002-16
Head, Department of Psychology, 1997-2002
Associate Dean, College of Arts and Sciences, 1990-97
Director, Center for Critical Inquiry in the Liberal Arts, 1990-97
Director of Graduate Studies, Department of Psychology, 1989-90.

University committees (selected):

Search Committee for Provost and Executive Vice Chancellor, 2013-14
Co-Chair, Strategic Enrollment Management Planning Group, 2012-13
Search Committee for Dean of the School of Nursing, 2012-13
Implementation Teams for University Planning Process, 2009-11
Steering Committee, Reorganization of Student and Academic Affairs, 2009-10
Integrated Marketing and Strategic Communications Committee, 2009-10 (Chair, Research Subcommittee)
Chair, Committee on Recruitment and Retention of Ethnic Minority Faculty, 2007-08
Chair, Review Committee for Lloyd International Honors College, 2007-08
Co-Chair, Search Committee for Dean, JSNN, 2006-08
Search Committee for Provost/VCAA, 2006-07
Interinstitutional Steering Committee for JSNN, 2006-08
Entrepreneurship Steering Committee, 2006-09
Chair, Search Committee for Dean of University Libraries, 2005-06
O. Max Gardner Award Committee, 2002-05
Groundbreaking Committee, New Science Building, 2001
Graduate Programs Subcommittee, SACS Self-Study Committee, 2000-02
Campus Master Plan Update Committee, 2000-01

Search Committee for Director of Physical Plant, 1999
Faculty Senate, 1997-2000; 2006-07
Planning Committee on Collaborations with NC A&T University, 1997-8
Architect Selection and Planning Committee, Science Instructional Building, 1996-
Chair, Science Building Program Committee, 1995-96
Chair, Steering Committee on Residential Learning, 1994-5
Academic Policies Committee, 1993-6
Chair, Advisory Committee on Instructional Technology, 1993.
Committee on the Development of Computing and Information Systems, 1991-92
Science Programs Planning Committee, 1990.
Graduate Administrative Board, 1990-91
Dean of Arts and Sciences Review Committee, 1989-90
Admissions Policies Committee, 1988-90
Working Committee on Instructional Use of Computers, 1988-90
Curriculum Committee (College Representative), 1988-89
Institutional Animal Care and Use Committee, 1985-86, 1987-89

College committees:

Chair, Search Committee for Head of Mathematical Sciences Department, 2000-01
Budget and Planning Committee, 1999-2001 (elected member)
Search Committee for Head of Department of Biology, 1996-97.
Task Force on First-Year Academic Experience (Chair), 1995-96.
Search Committee for Head of Department of Communication, 1994-95.
Chair, Planning Committee on Freshman/Sophomore Opportunities, 1992-93
Science Programs Planning Committee, 1992-93
Chair, Composition Board, 1990-97
Chair, Freshman Seminars Planning Committee, 1990-91
College Committee on Race and Gender Issues, 1990-91
Advisory Board, Center for Critical Inquiry, 1989-97 (Chair, 1990-7)
Chair, Committee on Undergraduate Studies, 1989 (Fall).
Program Committee for Master of Arts in Liberal Studies, 1988-95
Committee on Undergraduate Studies, 1988-90.
Chair, Advisory Committee on Math/Science Education, 1988-89.

Departmental committees:

Cognitive Development Search Committee, 1995-96
Chair, Ad Hoc Committee on the Undergraduate Curriculum, 1992.
Cognitive Neuroscience Search Committee, 1991-92.
Clinical Search Committee, 1988-89.
Neuroscience/Psychobiology Search Committee, 1988.
Executive Committee, 1986-90 (elected member, 1986-89).
Special Programs Committee, 1986-90 (Chair, 1987-89)
Graduate Studies Committee, 1986-90 (Chair, 1989-90)
Undergraduate Studies Committee, 1986-87
Child-Clinical Search Committee, 1986-87.
Interim Chair, Developmental Area Admissions, 1986.

Headship Nominating Committee, 1986.
Experimental Position Planning Committee, 1986
Course Evaluation Coordinator, 1985-90
Animal Subjects Committee, 1985-89
Research Committee, 1985-86.
Long-Range Planning Committee, 1985-86.
Curriculum Committee, 1984-86.
Kendon Smith Lecture Committee, 1983-86.

Interdepartmental programs:

N.C. Teaching Fellows Program, 1996-98
Convener of Faculty Fellows Seminar, Center for Critical Inquiry, 1990-95
Coordinator of Writing-Across-the-Curriculum Program, 1990-97
Coordinator of Freshman Seminars Program, Center for Critical Inquiry, 1990-97
Science Across the Liberal Arts Curriculum, 1990.
Honors Program (*Introductory Psychology*), 1990, 1993.
Faculty Fellows Program, Center for Critical Inquiry, 1989-91
Freshman Seminars Program – *Antigone and the Problem of Human Nature*, 1989;
Literary and Psychological Perspectives on Biography, 1996.
Master of Arts in Liberal Studies Program (Seminar on *The Concept of Instinct*), 1988.
Participant in Writing Across the Curriculum Group, 1987.
Honors Program (Seminar on *The Concept of Instinct*), 1985.
Residential College (*Introductory Psychology*), 1985.