

**Phyllis Baudoin Griffard, PhD**  
**Curriculum Vitae**  
**Updated June 2017**

Contact

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Personal

Citizenship: USA  
Date of Birth: December 14, 1961  
Place of Birth: Morgan City, LA, USA  
Married to Pete Griffard; Children: Emile (1994) and Gabriel (1996)

Education

PhD in Curriculum and Instruction, minor in Biochemistry, Louisiana State University, Baton Rouge, Louisiana, USA. December, 1999  
MS in Medicinal Chemistry and Pharmacognosy (doctoral candidate), Purdue University, West Lafayette, Indiana, USA. December, 1987  
Honors BS in Zoology, minor in Chemistry. University of Southwestern Louisiana, USA, May, 1983

Professional Positions and Employment

2017-present Master Instructor of Biology, University of Louisiana-Lafayette  
2015-2017 Instructor of Biology, University of Louisiana-Lafayette  
2014-present Freelance Rewriter, Forte Science Communications, Tokyo, Japan  
2014 Adjunct Instructor, University of St. Thomas, Houston, TX  
2012-2014 Lecturer in Biology, University of Houston-Downtown, Houston, TX  
2008-2012 Senior Lecturer in Biology, Pre-medical Education, Weill Cornell Medical College in Qatar, Doha, Qatar  
2007-2008 Freelance Rewriter, Forte Science Communications, Tokyo, Japan  
2005-2008 Adjunct Instructor of General Biology and Introductory Biology, Northwestern State University of Louisiana, Natchitoches, LA, USA  
2004-2006 Supervisor of Distance Learning, CSPC International School, Hui Yang, China  
2003-2005 Visiting scholar, Huizhou University, Huizhou, Guangdong, China  
2002-2003 Director, UHD Scholars Academy, and Lecturer in Biology, University of Houston-Downtown, Houston, TX, USA  
2000-2002 Program Coordinator and Evaluator of the UHD Scholars Academy and Lecturer in Biology, University of Houston-Downtown, Houston, TX, USA  
1999-2000 Interim Director of the Science Learning Center and Lecturer in Biology, University of Houston-Downtown, Houston, TX, USA  
1996 Adjunct Instructor of Biology (Cell, Molecular and Developmental Biology), Loyola University, New Orleans, LA, USA  
1995-1999 Graduate Fellow, Louisiana State University  
1990-1994 Instructor of Biology (tenure-track) and General Biology Coordinator, Xavier University of Louisiana, New Orleans, LA, USA  
1989 Volunteer Intern, World Neighbors (A Non-Governmental International Development organization), Mali, West Africa  
1988-1989 Research Associate, Department of Biochemistry and Molecular Biology, Louisiana State University Medical Center, New Orleans, LA  
1985-1987 Graduate Research Assistant and Fellow, Purdue University

1983-1985 Graduate Teaching Assistant, Purdue University

### Professional Memberships

1995-2012 National Association for Research in Science Teaching  
2010-2014 National Science Teachers Association (College Science Section)  
2010-2012 American Association for the Advancement of Science  
2016- Louisiana Academy of Sciences

### Honors and Awards

2015 Accepted to the Fulbright Specialist Program roster for Biology Education  
2014 Winner of Outstanding Lecturer Award, University of Houston-Downtown  
2012 Pre-medical Science Teaching Award, Weill Cornell Medical College-Qatar  
2009 Judy Moody-Stuart Literary Prize  
1999 Inducted into Phi Kappa Phi National Honor Fraternity as life member  
1995-1999 Board of Regents Graduate Fellowship, Louisiana State University  
1985-1987 David Ross Doctoral Fellowship, Purdue University

### Articles in peer-reviewed journals

1. **Griffard, P. B.** and K. Golkowska (2013). "Early exposure to research: Outcomes of the ASTER certification program." Journal of College Science Teaching **43**(1): 36-43.
2. **Griffard, P.B.**, T. Mosleh, and S. Kubba (2013). "Developing the Inner Scientist: Book Club Participation and The Nature of Science." CBE Life Sci Education **12**(1): 80-91.
3. **Griffard, P. B.** and J. H. Wandersee (2001). "The Two-tier Instrument on Photosynthesis: What does it diagnose?" International Journal of Science Education **23**(10): 1039-1052.
4. **Griffard, P. B.** and J. H. Wandersee (1999). "Challenges to meaningful learning among African-American females at an urban science high school." International Journal of Science Education **21**(6): 611-632.
5. Morre', D. J., K. E. Creek, G. R. Matyas, N. Minnifield, I. Sun, **P. Baudoin**, D. M. Morre', and F. Crane (1984). "Free-flow electrophoresis for subfractionation of rat liver golgi apparatus." BioTechniques **2** (4): 224-233.

### Book chapters

1. **Griffard, P.B.** (2013) *Deconstruction and Decoding of Complex Process Diagrams used in University Biology*, in Multiple Representations in Biological Education. D. Treagust and C.-Y. Tsui, eds. New York: Springer.
2. Wandersee, J. H. and **P.B. Griffard** (2002). *The History of Chemistry: Potential and Actual Contributions to Chemical Education*, in Chemical Education: Towards Research-Based Practice. Norwell MA: Kluwer.
3. **Griffard, P. B.** (1999). Gaps in college biology students' understanding of photosynthesis: Implications for human constructivist learning theory and college classroom practice, UMI Publication #9960057.
4. Ashendel, C. L., **P. A. Baudoin** and P. M. Minor (1988). *Protein phosphorylation in signal transduction and tumor promotion*. pp. 331-342 in Tumor Promoters: Biological Approaches for Mechanistic Studies and Assay Systems. R. Langenbach, E. Elmore and J. C. Barrett. New York, Raven Press.

### Abstracts

1. Qureshi, S and **P. B. Griffard** (2012). Process Oriented Guided Inquiry Learning (POGIL) in Foundation Chemistry: A progress report. 14<sup>th</sup> Annual Science and Math Educators Conference. Beirut, Lebanon.
2. Treagust, D., C.-Y. Tsui, A. Yarden, **P. Griffard**, K. L. Halverson, K. Shoenborn, R. Schwartz, S. L. Wong, B. C. Buckley, K. Niebert (2012). How Best Can Multiple External Representations be Harnessed for Improving Learning in Biology? National Association for Research in Science Teaching, Indianapolis, Indiana.

3. **Griffard, P. B.** (2011). Interpreting Complex Process Diagrams in Biology. Gordon Research Conference on Visualization in Science and Education, Smithfield, RI.
4. **Griffard, P. B.**, T. Mosleh and S. Kubba (2011). Developing the Inner Scientist: Book Club Participation and Epistemological Growth. National Study of Education in Undergraduate Science, Tuscaloosa, AL.
5. **Griffard, P. B.** (2010). Decoding Visual Narratives Used in University Biology. National Association for Research in Science Teaching, Philadelphia, PA, USA.
6. **Griffard, P. B.** and J. H. Wandersee (2003). A Typology of Gaps in College Biology Students' Understanding of Photosynthesis. In a symposium entitled Methods and Myths about Conducting Research in Botany Education. Botanical Society of America. Mobile, AL.
7. **Griffard, P. B.** and J. H. Wandersee (2001). A qualitative look at a quantitative approach to alternative conceptions research: The two-tier instrument. National Association for Research in Science Teaching, St. Louis, MO.
8. **Griffard, P. B.** and A. D. Adams (2001). An analysis of the attributes of alternative conceptions in physics and biology: Similarities, differences, and implications for conceptual change. National Association for Research in Science Teaching, St. Louis, MO.
9. **Griffard, P. B.** and J. H. Wandersee (2000). Evidence of college students' graphic decoding gaps during use of a computer simulation of photosynthesis. Mathematics/Science Education and Technology, San Diego, CA.
10. **Griffard, P. B.** and J. H. Wandersee (2000). Toward a comprehensive typology of gaps in college biology students' understanding of photosynthesis. National Association for Research in Science Teaching, New Orleans, LA.
11. **Griffard, P. B.** and J. H. Wandersee (1999). Exposing gaps in college biochemistry understanding using new cognitive probes. National Association for Research in Science Teaching, Boston, MA.
12. **Griffard, P. B.** and J. H. Wandersee (1998). Challenges to meaningful learning among African-American females at an urban science high school. National Association for Research in Science Teaching, San Diego, CA.
13. Ashendel, C. L., P. L. Minor, **P. A. Baudoin** and C. Molina (1987). "Chromatographic resolution of altered forms of protein kinase C." Fed. Proc. 46: 2067.
14. Minor, P. L., **P. A. Baudoin** and C. L. Ashendel (1987). "Separation and functional characterization of protein kinase C isozymes from rat brain and other tissues." Proc. Am. Assoc. Cancer Res. 28: 174.
15. Reeves, J. A., **P. A. Baudoin**, C. L. Ashendel and A. Kraft (1987). "Bryostatin is less potent than phorbol esters in inducing non-adherent growth of mouse epidermal cells." Proc. Am. Assoc. Cancer Res. 28: 175.
16. **Baudoin, P. A.** and C. L. Ashendel (1987). "Down-regulation of protein kinase C in mouse cells and tissues." Fed. Proc. 46: 2067.
17. **Baudoin, P. A.** and C. L. Ashendel (1986). "Down-regulation of the phorbol ester receptor in mouse lymphocytes and during promotion of C3H 10T1/2 fibroblasts." Proc. Am. Assoc. Cancer Res. 27: 145.

#### Other presentations

1. **Griffard, P.B.** (2016). DeafBlind Cajuns. Science on the Bayou.
2. Dement, G., **Griffard, P. B.**, Kang, Y., Sadana, R. (2014). Team-based Learning in Freshman Biology. University of Houston-Downtown Technology in Learning Conference.
3. Klingler, L., Pilgrim, B., Rush, A., Sadana, R. and **Griffard, P. B.** (2014). Characterization of Bachome and others. University of Houston-Downtown High Impact Practices Showcase.
4. **Griffard, P. B.** (2012). Higher Science Education: Semiotics and Epistemology. Pre-medical Faculty Seminar Series, Weill Cornell Medical College in Qatar.
5. **Griffard, P. B.** (2010). How science knowledge grows: Rich immersion in science non-fiction literature in Cornell's Biology lecture course. English Teaching Excellence for Qatar Conference.

6. **Griffard, P. B.** (2010). Developing the Inner Scientist: The Pre-medical Book Club. Education City Liberal Arts/Social Sciences Forum.
7. **Griffard, P. B.** (2009) Understanding the First Year Premedical Experience (and Improving It). Poster at 2nd Annual Action Research Conference, Qatar University.
8. **Griffard, P. B.** (2009). I See What You're Saying: Graphic Decoding in the Life Sciences. Education City Liberal Arts/Social Sciences Research Forum. March 30, 2009.
9. **Griffard, P. B.**, S. Slough, P. Morris-Smith and L. G. Spears (2002). Standards-based science content courses for preservice elementary teachers: A progress report. National Science Teachers Association. San Diego, CA.
10. **Griffard, P. B.** (2000). Making biology INTERACTIVE: A "bodies-on" approach. Fall 2000 meeting of the Metropolitan Area Teachers of Science, Houston TX.
11. **Griffard, P. B.** and J. H. Wandersee (1996). Inquiring professors want to know: What do college students misunderstand about photosynthesis? National Association of Biology Teachers, Charlotte, NC.
12. **Griffard, P. B.** and J. H. Wandersee (1995). Students as molecules: Role-playing biochemical processes enhances learning in a college biology lecture. National Association of Biology Teachers, Phoenix, AZ.
13. **Baudoin, P. A.** and C. L. Ashendel (1986). Regulation of protein kinase C (PKC) and its relation to multistage *in vitro* promotion. PUB Research Conference, Crawfordsville, IN.
14. **Baudoin, P. A.** and C. L. Ashendel (1986). Translocation and down-regulation of protein kinase C and correlation with transformation *in vitro*. Tissue Culture Association Midwestern Branch spring meeting, Chicago.

#### Other articles

1. **Griffard, P. B.** (2017). "Cajun Strong: Community and Science Bolster Lives of Deaf-Blind in Acadiana." Louisiana Cultural Vistas, June issue, 38-42.
2. **Griffard, P. B.** (2010) Dissecting Motivation: The Will-Skill-Thrill Profile. Journal of College Science Teaching **40** (1), pages 10-11.
3. **Griffard, P. B.** (2008). The Expat Meme Machine. Destinations, June, pages 30-33. (Winner of Judy Moody-Stuart Literary Prize)
4. **Griffard, P. B.** (2006). Hands-on Science Without Borders: Thinking Globally and Teaching Locally. Connect **19** (4): 4-6.
5. **Griffard, P. B.**, S. Flanagan and J. H. Wandersee (1999). "The mystery of the disappearing nucleus: How student-made flipbooks can model dynamic biological processes." Adaptation **20** (2): 4-7.
6. **Griffard, P. B.** and J. H. Wandersee (1998). "Teaching about scientist Barbara McClintock: Bridging molecular and organismal biology." Adaptation **19**(2): 8-11.

#### Intramural Professional Activities

##### Teaching

- 2015-present University of Louisiana-Lafayette, Fundamentals of Biology I and II lecture (face-to-face and online) and lab, Internship supervision, Coordination of BIOL 2 lab.
- 2014 University of St. Thomas, Introduction to Cell and Molecular Biology lecture, Introduction to Biology Practicum (lab)
- 2012-2014 - University of Houston-Downtown
  - General Biology 2 lecture and lab for majors
  - HHMI-supported SEA-PHAGES Biology I and II labs (*In situ* and *In silico*)
  - Anatomy and Physiology lecture and lab for pre-health majors.
  - Served on summer committee to develop course materials for Team-based learning for Biology I lecture reform.
  - Implemented High Impact Experiences into all courses since January 2013 (Service Learning Projects, Authentic Research, Team-based Learning and Applications)
- 2008-2012 - Weill Cornell Medical College in Qatar
  - Primary instructor for Premedical Biology lecture

Guest instructor in the Foundation Program Biology course  
 Co-instructor of Human Genetics (2011)  
 Co-instructor of Communications for Biomedical Research Interns: Grant-writing module (2011-2012)  
 Co-instructor of ENGL104: Reading and Writing in the Sciences (2009)  
 MCAT review for Biological Sciences and Verbal Reasoning (2010-2012)  
 2005-2008 - Northwestern State University of Louisiana  
 Adjunct instructor and developer of online course in Introductory Biology  
 Adjunct online instructor of General Biology lecture and lab for psychology majors  
 2005-2006 Huizhou University  
 Primary instructor for required Special English course for Biology majors.  
 1998-2002 - University of Houston-Downtown  
 Regular instructor of Introductory Biology I and II lectures and labs (first year course for science majors)  
 Developer and primary instructor of Life Science Studies (a standards-based biology course for preservice elementary school teachers)  
 Developer and primary instructor for Special Topics in Life Science (an intensive biology course for elementary school teachers in a Masters Program)  
 Developer and Instructor of UHD's College Success Program for freshmen in the UHD Scholars Academy  
 Occasional instructor in service courses for non-science majors  
 1996 Louisiana State University  
 Co-instructor of graduate course in Concept Mapping, Department of Curriculum and Instruction  
 1996 Loyola University of New Orleans  
 Adjunct instructor of sole section of Cell, Molecular and Developmental Biology, a required 2<sup>nd</sup> year course for Biology majors  
 1990-1994 Xavier University of Louisiana  
 Course coordinator and instructor of multiple sections of General Biology I lecture and lab  
 Developer and primary instructor of Cell Biology lecture and laboratory  
 Developer and primary instructor of Research Techniques module on Immunodetection Strategies  
 Occasional instructor in biology seminar and non-science major lectures and labs

#### Service

2016 Faculty advisor to Manos Unidas, a UL-Lafayette student organization  
 2013-2014 University of Houston-Downtown  
 Service Learning and Community Engagement committee  
 2008-2012 Weill Cornell Medical College in Qatar  
 Elected pre-medical faculty representative to Dean's Advisory Council  
 Chair, Course Report Committee  
 Chair, First-year Schedule Committee  
 Founding Coordinator of Steering Committee of ASTER (Access to Science Through Experience in Research)  
 Founding Coordinator of Faculty Teaching Circle  
 Founding Sponsor of Pre-medical Book Club  
 Coordinator of Teaching Assistant Training  
 Pre-medical Promotion and Graduation Committee  
 Academic Advisor to pre-medical and foundation students  
 Pre-medical Curriculum Committee  
 Pre-medical Admissions Committee  
 1999-2002 University of Houston-Downtown  
 Instructional Technology Support Committee  
 Science and Mathematics Education Committee

1994-1997 Louisiana State University

Associate editor of the LSU Science Talk newsletter

1990-1994 Xavier University of Louisiana

Academic advisor to numerous pre-medical students

Department advisor to all biology education majors

Committees for Teacher accreditation, Service learning, Faculty development

Faculty Senate Officer

### Extramural Professional Activities

Service to the Profession

Reviewer of proposals for 2010, 2011 NARST annual conferences

Outreach

Acadiana Native Plant Project Board Member; Higher Education Advisor, Fall 2016

Certified Louisiana Master Naturalist, Acadiana Chapter, Spring 2016

Certified Texas Master Naturalist, Gulf Coast Chapter, May 2015

Accepted to Fulbright Specialist Program biology educator roster, 2015

Instructor in Houston Arboretum and Nature Center Adult Education series (Fall 2014-Spring 2015)

Lead instructor in Inquiry workshops for high school biology teachers in Qatar, part of LiScEN (Life Science Educator Network), March-May 2012

Instructor in Saturday High School student inquiry activities

Qatar Supreme Education Council Oversight Committee for Revision of the National Curriculum Standards for Math and Science

Biology advisor and judge to the Science Olympiad at Doha Independent Secondary School for Boys

Professional resource and Career Day Speaker at Qatar Academy in WCMC-Q Adopt-a-School program

Speaker at DeBakey School for Health Professions, Qatar Academy, and visitor to Al Bayyan IB biology class.

Chowa Parent Education Series, "Infowhelmed Parenting: Making Sense of New Findings in Brain Science," Yokohama International School, Japan. 2007

Guest lessons on special topics, including *Concept Mapping* for International Baccalaureate Diploma Programme Theory of Knowledge course and for special needs primary students, Yokohama International School, Japan; *Petrochemical Polymers*, *Hands-on organ dissection*, *Scale model of solar system*, *Oetzi's age*, *The food plants make* and others, CSPC International School, Hui Yang, China; *Birds*, *Water* and others, Valley Oaks Elementary School, Houston TX, USA.

After-school science clubs, *pro bono*, Yokohama International School, Japan and CSPC International School, Hui Yang, China. Term-long topics included *Skeletons*, *Sea Life*, *Looking Inside*, *Food Science* and others. 2004-2008

Steering committee that established the schoolyard habitat at Valley Oaks Elementary School, Houston, TX. 2002

Member of committees in the Houston area, including the University/College Coalition section and the Professional Development Task Force of HU-LINC (Houston Independent School District's NSF Urban Systemic Initiative), the advisory committee for the Ecostation exhibit at the Children's Museum of Houston 1999-2002

Steering committee that established the New Orleans Science and Mathematics High School. 1991-1993

Provider of professional development for secondary and post-secondary educators

Presenter of teacher workshop on Concept Mapping, Yokohama International School, Yokohama, Japan, 2006.

Facilitator of workshop for HULINC (Houston Independent School District's NSF Urban Systemic Initiative) training for elementary science teachers. Workshop: "Observations that Lead to Investigations." 2001

Organizer of HULINC (Houston's NSF Urban Systemic Initiative) summer workshop for elementary teachers on use of FOSS and STC science kits. 2000-2001  
Facilitator of Shell Say Yes! Science and Technology Integration in Urban Schools. Houston Independent School District. 2000-2001  
Staff member of Eisenhower Molecular and Cellular Biology Institute for high school teachers. University of Houston-Downtown. 1999-2000  
Presenter of teaching workshop for graduate students in Pharmacology at LSU Medical Center, New Orleans, LA, USA. 1996  
Planner of local conference of the Greater New Orleans Task Force, a faculty development conference for Science and Mathematics professors in the Greater New Orleans area 1996  
Faculty development workshop on Assessment at Nunez Community College, Chalmette, LA, USA. 1995

#### Conferences and Professional Development

Participant in Course Design Practicum, University of Louisiana-Lafayette, Summer 2015  
Participant in Quality Matters course, University of Louisiana-Lafayette, Spring 2015  
Participant in Faculty Development Workshop on Teaching Freshman Seminar, University of Houston-Downtown, April-May 2014  
Participant in On-Course Workshop, University of Houston-Downtown, May 2014.  
Presenter in High Impact Practices Showcase, University of Houston-Downtown, April 2014  
Presenter in Technology in Teaching Conference, University of Houston-Downtown, April 2014  
Participant in SEA-PHAGES *In-silico* Workshop, Howard Hughes Medical Institute, December 2013  
Participant in SEA-PHAGES *In-situ* Workshop, Howard Hughes Medical Institute, June 2013  
Participant in Comprehensive Student Success Program (CSSP) Workshop, University of Houston, May 2013  
Participant in SEA-PHAGES Symposium, Howard Hughes Medical Institute, 2013  
Presenter in 2012 Annual meeting of NARST (National Association for Research in Science Teaching), Indianapolis IN, March 2012  
Presenter in Gordon Research Conference on Visualization in Science and Education, Bryant University, Smithfield RI, July 2011  
Presenter in NSEUS Conference (National Study of Education in Undergraduate Science), University of Alabama, Tuscaloosa AL, June 2011  
Participant in PBL Workshop: STEM Learning: Putting Principles into Practice, University of Delaware, June 15-17, 2011  
Participant in CASTL Institute on the Scholarship of Teaching and Learning, Creighton University, Omaha NE USA. June 2-5, 2010  
Participant in NVivo 8 (qualitative data analysis software) workshop. Manchester England. May 12-14, 2009  
Participant in 2010 Annual meeting of NSTA (National Science Teachers Association), Philadelphia PA  
Participant in 2010 National CASTL Institute on the Scholarship of Teaching and Learning, Creighton University, Omaha NE  
Presenter in 2010 Annual meeting of NARST, Philadelphia PA  
Presenter in Qatar University Action Research Conference, 2009  
Participant in 2009 Annual meeting of NARST (National Association for Research in Science Teaching), Garden Grove CA  
Participant in faculty development workshops at UHD on technology integration, WebCT  
Participant in NSF Chautauqua on Minority Retention, Dayton, OH, May 16-18, 2001.  
Craig Nelson, Course Director

Participant in Xavier University's faculty development workshops on assessment strategies, classroom research, writing across the curriculum, critical thinking and others, 1990-1994

### Research Support

- 2009-2012 *Formative Assessment and Epistemology*. Qatar National Research Fund National Priorities Research Program. US\$577,198. Roger Hinrichs, Principal Investigator. **Phyllis Griffard**, Co-Principal Investigator, 10% effort. (US\$85,950 to WCMCQ for 3 years)
- 2009-2010 *Effect of Book Club Participation on Epistemological Growth*. Qatar National Research Fund Undergraduate Research Experience Program. US\$20,000. **Phyllis Griffard**, Principal Investigator. Tayseer Mosleh and Saad Kubba, undergraduate researchers.
- 2009-2010 *Decoding of graphic representations used in undergraduate biology instruction*. Qatar National Research Fund Undergraduate Research Experience Program. US\$10,000. **Phyllis Griffard**, Principal Investigator. Yehia Elebiary, undergraduate researcher.
- 2009-2010 *Characterization of Mouse Models for Osteoporosis, Role of Osteoactivin, A Novel Factor in Bone*. Qatar National Research Fund Undergraduate Research Experience Program. US\$50,000. Fayez Safadi, Principal Investigator. **Phyllis Griffard**, Co-Principal Investigator. Amna Al-Khuzaei, Ahmed Al-Saei, Sarah Al-Khawaga, Aljazy Al-Maraghi, Shady Nakhla, undergraduate researchers.
- 2002-2005 *Minority Science Improvement*. U.S. Department of Education, \$194,214, Phyllis Griffard, Principal Investigator, 10% effort.

And related private and federal grants to University of Houston-Downtown to support the UHD Scholars Academy and Houston area teacher professional development.

### Research interests

My area of research interest is biology education. Within this are areas focused on the learner (e.g., alternative conceptions, visual aspects of cognition), instruction (e.g., use of concept mapping and book clubs), the content (e.g., evolution of biological thought), undergraduate research experience (infrastructure and support) and local context (e.g., intercultural issues, place-based education). The goal of my research in this area is to improve learning and other factors relating to future success of undergraduates in science-related careers.