
CHRISTINE ANN MARSHALL

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<u>Smith College</u>	A.B., Psychology, Biology	1992
<u>Columbia University</u>	Ph.D., Neurobiology & Behavior	2004

PROFESSIONAL AWARDS

NABT	Genetics Educator Award, National Association of Biology Teachers	2017
University of Chicago	Outstanding Educator Award	2017
Regeneron Talent Search	Teacher of Merit Award	2016
Coca-Cola Foundation	Joseph B. Whitehead Educator of Distinction Award	2015
U.S. Presidential Scholars	Distinguished Teacher Award	2014
Phillips Academy	Schmertzler Life Sciences Instructorship	2014-2019
Columbia University	Brunie Prize for Stem Cell Thesis Work	2004

TEACHING EXPERIENCE

<u>Research Fellow</u>	Phillips Academy, Tang Institute <ul style="list-style-type: none">Created SYNAPSE, student-centered learning strategies based onDesigned learning & memory co-curriculum for biology coresDeveloped instrument for assessing science literacy, mindsetLed seminar series for faculty on learning & memory	2016-2018
<u>Instructor in Biology</u>	Phillips Academy, Division of Natural Sciences <ul style="list-style-type: none">Created electives: Bioethics, Sense of Place, NeurobiologyIncorporated case studies, inquiry modules into Biology 500Developed learning targets, assessment criteria for Biology 500Curated interdisciplinary “Sense of Place” exhibit with art facultyExpanded independent research program in molecular biologyLaunched Andover-Exeter Science Symposium	2008-present
<u>Instructor in STEAM</u>	Brooks School, Summer Program <ul style="list-style-type: none">Designed experiential course in ecology and nature writingTaught geometry and SSAT math prep	2011-2014
<u>Research Mentor</u>	Harvard College, Department of Neuroscience <ul style="list-style-type: none">Designed, mentored, and evaluated undergraduate thesis project	2005-2007
<u>Research Mentor</u>	Howard Hughes Medical Institute, EXROP Outreach Program 2007 <ul style="list-style-type: none">Designed and directed undergraduate summer research projectEvaluated student’s performance for HHMI	
<u>Teaching Assistant</u>	Columbia University, Department of Neuroscience <ul style="list-style-type: none">Taught section of advanced undergraduate neurobiology courseTutored undergraduates and 1st year graduate students	2000-2001
<u>Senior Scholar</u>	Smith College and Clarke School for Hearing & Speech <ul style="list-style-type: none">Created activity-based, science curriculum for deaf studentsLed development workshops for Clarke School faculty	1991-1992

ATHLETICS

<u>Leader</u>	Outdoor Pursuits	2011-present
<u>Official Timer</u>	Indoor Track	2013-present
<u>Assistant Coach</u>	Cross-Country, Indoor Track	2008-2011

RESIDENTIAL

<u>Residential Counselor</u>	Johnson House	2016-present
<u>Residential Counselor</u>	Day House	2010-2016
<u>Complementary Counselor</u>	Morton House	2008-2010

COMMITTEES

House Counseling Committee	2017-present
Strategic Plan Implementation Committee on the PG Program	2014-2015
Faculty Advisory Committee to the Head of School	2012-2014
NEASC Self-Study Steering Committee	2009-2010

ADDITIONAL EXPERIENCE

<u>Member</u>	AWARE	2021
<u>Presenter</u>	Trustees of Phillips Academy Fall Meeting (Learning & Memory)	2021
<u>Participant</u>	Green Educators Course, Green School, Bali	2019
<u>Presenter</u>	Trustees of Phillips Academy Fall Meeting (Biology 600)	2017
<u>Participant</u>	White Privilege Conference	2015, 2016
<u>Speaker</u>	National Association of Biology Teachers Conference	2013
<u>Speaker</u>	MIT Graduate Program in Biology, education series	2012
<u>Speaker</u>	Rainforest Alliance, New York Headquarters	2011
<u>External Reviewer</u>	Phillips Exeter Science Department, evaluation for Anne Rankin	2011
<u>Program Researcher</u>	Noble and Greenough, Phillips Exeter	2010
<u>Program Researcher</u>	Rainforest Alliance, Costa Rica (agriculture, tourism)	2010
<u>Scholar in Residence</u>	Hastings Center for Bioethics Research	2010

SCIENTIFIC RESEARCH

<u>Post-Doctoral Fellow</u>	Harvard Medical School, Boston Children's Hospital, HHMI Christopher Walsh, M.D., Ph.D., Chief of Neurogenetics & Genomics <i>Growth and regionalization of the human cerebral cortex</i>	2004-2008
<u>Co-Founder</u>	Neural Progenitor Club New York Academy of Sciences <i>Forum for idea exchange within the NYC neuroscience community</i>	2002-2004
<u>Ph.D. Candidate</u>	Columbia University James E. Goldman, M.D., Ph.D., Chair of Neuropathology <i>Lineage and cell fate specification of neural progenitors</i>	1998-2004
<u>Lead Research Assistant</u>	Rockefeller University Mary E. Hatten, Ph.D., Professor of Developmental Neurobiology <i>Cerebellar granule neuron development</i>	1995-1998
<u>Research Assistant</u>	Rockefeller University Torsten Wiesel, M.D., Professor of Neurobiology, Nobel Laureate <i>Microcircuitry of the primary visual cortex</i>	1992-1995
<u>Research Intern</u>	Harvard Medical School John A. Wagner, Ph.D., Associate Professor of Cell Biology <i>Injury responses of the optic nerve</i>	1990

TRADE PUBLICATIONS

- C Marshall**, SYNAPSE: How to work smarter, not harder! (nonfiction, in development),
- C Marshall** and M Magnell, SYNAPSE (graphic novel, in development),
- C Marshall** (2013) Raising the next generation: bioethical education for a post-genomic age. *Independent School Magazine*, Winter Issue: 50-52.
- Marshall C** and S Holm (2012) George Church '72 is making the future: Q&A with Christine Marshall. *Andover, The Magazine*, Winter Issue: 24-27.

STUDENT PUBLICATIONS

- Vargas Guerra AM and **CA Marshall** (2014) Vitamin D3 blocks NFkB activation in an in vitro model of cystic fibrosis. *Journal of Experimental Secondary Science*, 3(2).
- Bloxham W and **CA Marshall** (2013) Simultaneous inhibition of the RAF/MEK/ERK and PI3K/ATK/MTOR pathways has significant synergistic effects on proliferation and migration in C6 glioma cancer cells. *Journal of Experimental Secondary Science*, 3(1).
- Shin C and **CA Marshall** (2012) The role of Caenorhabditis Elegans peroxidase PXN-2 in axon regeneration. *Journal of Experimental Secondary Science*, 2(2): 1-6.
- Montana M and **CA Marshall** (2012) Survivin is essential for efficient cell mobility and proliferation in U87 and C6 glioma cells. *Journal of Experimental Secondary Science*, 1(3): 19-26.
- Bhaiwala Z and **CA Marshall** (2011) Poliovirus receptor CD155 over-expression effect on migration in C6 glioma cells. *Columbia Undergraduate Science Journal*, 5: 42-49.

SCIENTIFIC ARTICLES

- Yang YJ, Baltus AE, Mathew RS, Murphy EA, Evrony GD, Gonzalez DM, Wang EP, **Marshall CA**, et al. (2012) Microcephaly gene links trithorax and REST/NRSF to control neural stem cell proliferation and differentiation. *Cell*, 151(5): 1097-1112.
- Shen J, Gilmore EC, **Marshall CA**, et al. (2010) Mutations in PNKP cause microcephaly, seizures and defects in DNA repair. *Nature Genetics*, 42(3): 245-49.
- Marshall CA**, Novitsch BG and JE Goldman (2005) Olig2 directs astrocyte and oligodendrocyte formation in postnatal subventricular zone cells. *Journal of Neuroscience*, 25(32): 7289-98.
- Marshall CA**, Suzuki SO and JE Goldman (2003) Gliogenic and neurogenic progenitors of the subventricular zone: Who are they, Where did they come from, and Where are they going? *Glia*, 43:52-61.
- Marshall CA** and JE Goldman (2002) Subpallial Dlx2 expressing cells give rise to astrocytes and oligodendrocytes in the cerebral cortex and white matter. *Journal of Neuroscience*, 22(22): 9821-30.