

# CURRICULUM VITAE

## DR. ANDREW W HILL

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### VIZZUALITY & CARTODB

#### SENIOR SCIENTIST

247 Centre Street, Fl 6., New York, NY 10013

2011-Present

Andrew is responsible for innovation, communication and community engagement for CartoDB. He prototypes visualizations and use-cases that push the boundaries of mapping on the web and help guide development of the product. As part of that work, Andrew applies his research background to explore how narratives and data come together in ways that highlight the power of storytelling with maps. He engages and interacts with multiple communities that use or contribute to online mapping in order to identify community needs, technology trends, and opportunities for improving platform awareness. He is widely known and respected in communities from cartography and GIS to citizen science. To help build a stronger user-base, Andrew works to turn new users into professional mappers through demos, public presentations, and classes. He also engages with academic professionals to build CartoDB into research and university classrooms to advance the goal of moving GIS to the web.

### EDUCATION

#### UNIVERSITY OF COLORADO

M.A. *Ecology and Evolutionary Biology*, 2008

Ph.D. *Ecology and Evolutionary Biology*, 2012. Advisor - Dr. Robert Guralnick

### PUBLICATIONS

#### 2012

Hill AW, Guralnick R, Smith A, Sallans A, Gillespie R, Denslow M, Gross J, Murrell Z, Conyers T, Oboyski P, Ball J, Thomer A, Prys-Jones R, de la Torre J, Kocielek P, Fortson L. The notes from nature tool for unlocking biodiversity records from museum records through citizen science. *ZooKeys* 209: 219-233 [[full-text](#)]

#### 2011

Bachman S, Moat J, Hill AW, de la Torre J, Scott B. Supporting Red List threat assessments with GeoCAT: Geospatial Conservation Assessment Tool. *ZooKeys* 150: 117-126 [[full-text](#)]

Maddison DR, Guralnick R, Hill AW, Reysenbach AL, McDade L. Ramping up biodiversity discovery via online quantum contribution. *Trends in Ecology & Evolution*. doi:10.1016/j.tree.2011.10.010

McDade LA, Maddison DR, Guralnick R, Piwowar HA, Jameson ML, Helgen KM, Herendeen PS, Hill AW, Vis ML. Biology needs a modern assessment system for professional productivity. *BioScience* 61(8):619-625 [[full-text](#)]

#### 2010

Hill AW, Otegui J, Ariño AH, Guralnick RP. GBIF Position Paper on Future Directions and Recommendations for Enhancing Fitness-for-Use Across the GBIF Network, version 1.0. Copenhagen: Global Biodiversity Information Facility, 25 pp. ISBN: 87-92020-11-9. [[full text](#)]

Hill AW and Guralnick RP. GeoPhylo Engine: an online tool for developing visualizations of phylogenetic trees in geographic space. *Ecography*. [[full text](#)]

#### 2009

Hill AW, Guralnick RP, Flemons P, Beaman R, Wieczorek J, Ranipeta A, Chavan V, Remsen D. Location, Location, Location: Utilizing pipelines and services to more effectively georeference the world's biodiversity data. *BMC Bioinformatics*. 10(Suppl 14):S3.

Guralnick RP and Hill AW. Biodiversity informatics: Automated approaches for documenting global biodiversity patterns and processes. *Bioinformatics*. 25(4):421-428. [[full text](#)]

Hill AW, Guralnick RP, Wilson MJC, Habib F, Janies D. Evolution of drug-resistance in multiple distinct lineages of H5N1 avian influenza. *Infection, Genetics, and Evolution* 9(2):169-178. [[full text](#)]

#### 2008

## ANDREW W. HILL

Schmidt SK, Reed SC, Nemergut DR, Grandy AS, Cleveland CC, Weintraub MN, Hill AW, Costello EK, Meyer AF, Martin AM, Neff JC. The earliest stages of microbial ecosystem succession in high-elevation, recently deglaciated soils. *Proceedings B* 275(1653):2793-2802.

Hill AW, Guralnick RP. Distributed systems and automated biodiversity informatics: Genomic analysis and geographic visualization of disease evolution. In A. Gray, K. Jeffery, and J. Shao (Eds.) *British National Conference on Databases*. Springer-Verlag Lecture Notes in Computer Science series 5071, pp. 270-279. Berlin & Heidelberg.

Janies D, Habib F, Alexandrov B, Hill AW, Pol D. Evolution of genomes, host shifts, and geographic spread of SARS-CoV and related coronaviruses. *Cladistics* 23:1-20.

### 2007

Guralnick RP, Hill AW, Lane M. Towards a collaborative, global infrastructure for biodiversity assessment. *Ecology Letters* 10:663-672. [[full text](#)]

Janies D, Hill AW, Guralnick RP, Habib F, Waltari E, Wheeler WC. Genomic analysis and geographic visualization of the spread of Avian Influenza (H5N1). *Systematic Biology* 56(2):321-329. [[full text](#)]

### WORK SAMPLES

PLUTO DATA MAPPED  
<http://andrewxhill.github.io/cartodb-examples/scroll-story/pluto/index.html> 2013

NYC HENGE  
<http://nychenge.com/> and [original presentation](#) 2013

NEW YORK PUBLIC LIBRARY HISTORICAL DATA MAPS  
<http://andrewxhill.github.io/cartodb-examples/scroll-story/basic/index.html> 2013

LIVING CITIES (COLLABORATION BETWEEN CARTODB AND NOKIA)  
<http://here.com/livingcities/> 2013

GUARDIAN DATA BLOG - OLD WEATHER MAPPED  
[www.guardian.co.uk/news/datablog/interactive/2012/oct/01/first-world-war-royal-navy-ships-mapped](http://www.guardian.co.uk/news/datablog/interactive/2012/oct/01/first-world-war-royal-navy-ships-mapped) 2012

NOTES FROM NATURE  
<http://www.notesfromnature.org/> 2012

GUARDIAN DATA BLOG - SYRIA CONFLICT MAP  
[www.guardian.co.uk/news/datablog/interactive/2012/aug/02/syria-deaths-map](http://www.guardian.co.uk/news/datablog/interactive/2012/aug/02/syria-deaths-map) 2012

CARTODB  
<http://cartodb.com/> 2011

### PROJECTS & CODE

NOTES FROM NATURE  
<https://github.com/zooniverse/notesFromNature/> 2011-Present

CARTODB  
<https://github.com/CartoDB/cartodb> 2011-Present

TORQUE  
<https://github.com/CartoDB/torque> 2012-Present

CARTODB-R  
<https://github.com/Vizzuality/CartoDB-R> 2012-Present

GLOBAL FOREST WATCH  
<https://github.com/Vizzuality/gfw> 2011-Present

NEEMO  
<https://github.com/Vizzuality/neemo> 2011

COMMPHISH

## ANDREW W. HILL

	<a href="http://github.com/andrewxhill/Commplish">http://github.com/andrewxhill/Commplish</a>	2011
	MAP OF LIFE	
	<a href="http://github.com/andrewxhill/MOL">http://github.com/andrewxhill/MOL</a>	2010-2011
	PHYLOBOX	
	<a href="http://github.com/andrewxhill/PhyloBox">http://github.com/andrewxhill/PhyloBox</a>	2010
	GEOPHYLO	
	<a href="http://github.com/andrewxhill/GeoPhylo">http://github.com/andrewxhill/GeoPhylo</a>	2009-2010
WORKSHOPS, AWARDS, ETC	2013 NACIS WORKSHOP: INTRODUCTION TO CARTODB	
	2013 FOSS4G <u>MAP GALLERY WINNER</u> : BEST IN SHOW, BEST DATA INTEGRATION, MOST UNIQUE	
	2012 TEACHING: DATA VISUALIZATION AND GIS AT THE <u>VIBRANT</u> WORKSHOP ON DATA ANALYSIS AND VISUALIZATION USING CARTODB	
	2012 GIS AND WEB-MAPPING FOR JOURNALISTS AT THE <u>TOW CENTER MAPATHON</u>	
	2010 IEVOBIO. VISUALIZATION CHALLENGE ENTRY (FIRST PLACE). <u>PHYLOBOX</u> : A BETTER WAY TO DO PHYLOGENETIC TREES ON THE WEB.	
	2008 DISTRIBUTED SYSTEMS AND AUTOMATED BIODIVERSITY INFORMATICS. <u>BNCOD</u> , BIODIVERSITY INFORMATICS WORKSHOP. BEST PAPER RECOGNITION	
	2007 GENOMIC ANALYSIS AND GEOGRAPHIC VISUALIZATION OF H5N1 AND SARS-COV (POSTER). <u>AMIA</u> ANNUAL SYMPOSIUM. DISTINGUISHED POSTER AWARD	
TEACHING	<b>IE UNIVERSITY</b> Data management and Information Design. Associate Professor. Madrid, Spain	2011-2012
	<b>UNIVERSITY OF COLORADO</b> Invertebrate Diversity. Teaching Assistant.	2006
COMMUNITY ORGANIZATION	<b>RE3</b> Co-developed and co-organized the <u>Re3 StoryHack</u>	2013-Present
	<b>SURFRIDER NYC</b> Vice-chair, <u>website</u>	2012-Present
	<b>GEONYC</b> Co-organizer, <u>website</u>	2012-Present
	<b>ECOHACKNYC</b> Co-developed and co-organized <u>EcoHack</u>	2011-Present
SPEAKING SAMPLES	<i>UPCOMING</i> <b>GEOMUNDUS</b> , KEYNOTE, <i>STORYTELLING WITH MAPS</i>	
	<i>UPCOMING</i> <b>STRATA LONDON</b> , THE POWER OF VISUALIZING DEFORESTATION DATA	
	2013 <b>STATE OF THE MAP US</b> , <u>USING OPENSTREETMAP DATA TO BUILD YOUR DYNAMIC MAPS</u>	
	2012 <b>FOSS4G NORTH AMERICA</b> , TEMPORAL RASTERS: USING HTML5 TO VISUALIZE DEFORESTATION	
	2011 <b>MICHIGAN EARLY CAREER SCIENTIST SYMPOSIUM</b> , INVITED SPEAKER	