

## Curriculum Vitae

# S. Tonia Hsieh

Temple University  
Department of Biology  
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<b>EDUCATION</b>	<b>Harvard University</b> Department of Organismic and Evolutionary Biology Ph.D., Biology received 2005; A.M., Biology received 2002. <i>Advisor: George Lauder</i> Thesis: Biomechanics of Locomotion at the Air-Water Interface <b>University of California (UC), Berkeley</b> B.A., Integrative Biology (I.B.) received 1999.	Cambridge, MA      Berkeley, CA
<b>POSITIONS</b>	<b>Assistant Professor</b> , Temple University, Philadelphia, PA <b>Assistant Professor</b> , University of Florida, Gainesville, FL <b>Post-doctoral Research Associate</b> , Harvard University, Cambridge, MA <i>Advisor, Jonathan Losos</i> <b>Post-doctoral Research Associate</b> , Brown University, Providence, RI <i>Advisor, Thomas Roberts</i>	2010-present 2008-2009 2007-2008 2006-2007
<b>GRANT SUPPORT</b>	National Science Foundation (IOS-1453106: \$991,873, sole-PI) “CAREER: The Multi-functional Foot and its Role in Locomotor Control Across a Range of Complex Media” National Science Foundation (IGE-1545309: \$494,825) “NSF-IGE: Innovating graduate STEM education through body-centered partnerships” Office of the Vice Provost of Research, Temple University (\$100,000, co-PI) “Understanding Deformation Patterns of Suspensions and Granular Material” National Science Foundation (IOS-127547: \$14,985) “Meeting: Vertebrate Land Invasions: Past, Present, and Future; A Symposium for the Annual SICB Meeting in San Francisco, CA, January 3-7, 2013”	2015-2020 2015-2018 2015-2017 2012
<b>HONORS</b>	William Caldwell Memorial Distinguished Teaching Award, Temple University Dean’s Teaching Excellence Award, Warren Alpert Medical School, Brown Univ. Certificate of Distinction in Teaching Award, Harvard University Elsevier Young Investigator Award, Soc. Experimental Biology Departmental Citation, UC Berkeley Distinguished Service Citation, California Alumni Association	2015 2007 1999, 2005, 2006 2004 1999 1996
<b>FELLOWSHIPS</b>	National Geographic Society Research and Exploration Grant Student Travel Fellowship, Society of Integrative & Comparative Biology Putnam Expedition Fund, Harvard University Graduate Research Fellowship, National Science Foundation	2003-2004 2003 2002, 2003 2001-2004

<b>FELLOWSHIPS (CONT.)</b>	Summer Research Grant, UC Berkeley Biology Fellows Program	1998
	Explorers' Club Youth Activity Fund	1998
	Alumni Scholarship, UC Berkeley	1995-1999
	Hewlett-Packard University Scholarship	1995
<b>PROFESSIONAL MEMBERSHIP</b>	International Society of Vertebrate Morphologists, Society for Experimental Biology, Society for Integrative and Comparative Biology	
<b>COURSES TAUGHT</b>	<b>Temple University</b>	
	Department of Biology, 2010 – current	
	Biomimetics and Bioinspiration; Comparative Biomechanics; Herpetology	
	<b>University of Florida</b>	
	Department of Zoology, 2008, 2009	
	Functional Vertebrate Anatomy (lecture and lab)	
	<b>Brown University</b>	
	<i>Post-doctoral Teaching Associate</i> , Warren Alpert Medical School, 2006-2007	
	Human Gross Anatomy (1 <sup>st</sup> year medical students)	
	<b>Harvard University</b>	
	<i>Post-doctoral Teaching Fellow</i> , Department of Organismic and Evolutionary Biology, 2006	
	Lizard Ecology	
<i>Head Teaching Fellow</i> , Department of Organismic and Evolutionary Biology, 2005		
Biology and Diversity of Birds		
<i>Head Teaching Fellow</i> , School of Public Health, 2004		
The Human Organism		
<i>Teaching Fellow</i> , Department of Organismic and Evolutionary Biology, 1999-2005		
Advanced Structure and Physiology of Vertebrates; Human Anatomy; Structure and Function of Vertebrates		
<b>REFEREED PUBLICATIONS</b>	<b>Hsieh, ST.</b> <i>Accepted.</i> Impacts of tail loss and surface breadth on locomotor stability and performance in the arboreal green anole lizard ( <i>Anolis carolinensis</i> ). <i>The Journal of Experimental Biology</i> .	
	Ashley-Ross, MA, <b>ST Hsieh</b> , AC Gibb, RW Blob. <b>2013.</b> Vertebrate Land Invasions – Past, Present, and Future: an introduction to the symposium. <i>Integrative and Comparative Biology</i> . 53(2):192-196. doi:10.1093/icb/ict048	
	Gibb, AC, MA Ashley-Ross, <b>ST Hsieh</b> . <b>2013.</b> Thrash, flip, or jump: how do new behaviors evolve when teleost fishes are confronted with a novel environment? <i>Integrative and Comparative Biology</i> . 53(2):295-306. doi:10.1093/icb/ict052	
	Li C, <b>Hsieh ST</b> , Goldman, D. <b>2012.</b> The effect of substrate on the running mechanics of the zebra-tailed lizard ( <i>Callisaurus draconoides</i> ). <i>The Journal of Experimental Biology</i> . 215:3293-3308. doi:10.1242/jeb.061937	
	Ord, TJ, <b>Hsieh, ST</b> . <b>2011.</b> A Highly Social, Land-Dwelling Fish Defends Territories in a Constantly Fluctuating Environment. <i>Ethology</i> . 117(10):918-927.	
	<b>Hsieh, ST.</b> <b>2010.</b> A locomotor innovation enables water-land transition in a marine fish. <i>PLoS One</i> . 5(6): e11197.	
	<b>Hsieh, ST.</b> <b>2006.</b> A three-axis optical force plate for studies in small animal locomotion. <i>Review of Scientific Instruments</i> . 77:054303.	

**REFEREED  
PUBLICATIONS  
(CONT.)**

Autumn, K, **ST Hsieh**, DM Dudek, J Chen, C Chitaphan, and RJ Full. **2006**. Dynamics of geckos running vertically. *The Journal of Experimental Biology*. 209:260-272.

**Hsieh, ST** and GV Lauder. **2004**. Running on water: three-dimensional force generation by basilisk lizards. *Proceedings of the National Academy of Sciences*. 101(48):16784-16788.

**Hsieh, ST**. **2003**. Three-dimensional hindlimb kinematics of water running in the plumed basilisk lizard (*Basiliscus plumifrons*). *The Journal of Experimental Biology*. 206:4363-4377.

Autumn, K, Y Liang, **ST Hsieh**, W Zesch, WP Chan, T Kenny, R Fearing, and RJ Full. **2000**. Adhesive force of a single gecko foot-hair. *Nature*. 405(6787):681-685.

**Hsieh, ST**, RE Ballard, G Murthy, AR Hargens, VA Convertino. **1998**. Plasma colloid osmotic pressure increases in humans during simulated microgravity. *Aviation, Space, and Environmental Medicine*. 69:23-26.

**CONFERENCE/  
TECHNICAL  
PAPERS**

Liang YA, K Autumn, **ST Hsieh**, W Zesch, WP Chan, R Fearing, RJ Full, TW Kenny. **2000**. Adhesion force measurements on single gecko setae. In: *Technical Digest of the 2000 Solid-State Sensor and Actuator Workshop, Hilton Head Island, SC*. pp.33-38.

Matsuyama M, T Ueno, C Yang, **ST Hsieh**, HB Lillywhite, AR Hargens. **1998**. Evolutionary adaptations of intracranial pressure to gravity. In: *NASA Ames Research Center Research and Technology 1997*.

**SELECT  
PUBLISHED  
ABSTRACTS**

Fath, MA, **ST Hsieh**. **2015**. A comparative analysis of medio-lateral forces in upright and sprawled systems. *Integrative and Comparative Biology*. 55:e54.

Mazouchova, **ST Hsieh**. **2015**. Water depth influences dynamic similarity and locomotor mode in semi-aquatic turtles. *Integrative and Comparative Biology*. 55:e121.

Pfeiffenberger, JA, **ST Hsieh**. **2015**. Momentum as a possible mechanism for locomotor stability. *Integrative and Comparative Biology*. 55:e142.

Pfeiffenberger, JA, **ST Hsieh**. **2014**. Autotomy-induced effects on the maximum locomotor performance of ghost crabs in the field. *Integrative and Comparative Biology*. 54:e165.

Gibb, AC, MA Ashley-Ross, **ST Hsieh**. **2013**. How is a morphology that is under strong selection for swimming performance repurposed for terrestrial locomotion? *Integrative and Comparative Biology*. 53:e76.

Li, C, **ST Hsieh**, PB Umbanhowar, DI Goldman. **2013**. Rapid locomotion of a small lizard on sand requires fluid-like ground reaction forces. *Integrative and Comparative Biology*. 53:e127.

Mara, KR, **ST Hsieh**. **2013**. Differentiating slip perturbation recoveries from falls in bipedally-running lizards. *Integrative and Comparative Biology*. 53:e136.

Mazouchova, N, **ST Hsieh**, S Wilshin. **2013**. The aquatic-terrestrial transition of freshwater turtles from a dynamical systems perspective. *Integrative and Comparative Biology*. 53:e140.

Nelson, FE, V Dasari\*, **ST Hsieh**. **2013**. Differential limb function during locomotion on the level and over obstacles in the tarantula. *Integrative and Comparative Biology*. 53:e154.

Pfeiffenberger, JA, **ST Hsieh**. **2013**. Effects of limb autotomy on locomotor performance of ghost crabs. *Integrative and Comparative Biology*. 53:e166.

**Hsieh, ST**, RE Fisher, K Kusumi. **2012**. The effect of tail autotomy on locomotor stability in the green anole lizard. *Integrative and Comparative Biology*. 52: e81.

Mara, KR, **ST Hsieh**. **2012**. Slip perturbation recovery in the frilled dragon, a dynamically-stable bipedal runner. *Integrative and Comparative Biology*. 52: e112.

**SELECT  
PUBLISHED  
ABSTRACTS  
(CONT.)**

Parikh, SC\*, KR Mara, **ST Hsieh**. **2012**. Does the SLIP model apply during inverted running in cockroaches? *Integrative and Comparative Biology*. 52: e134.

**Hsieh ST**, RJ Kulathinal. **2011**. lizardbase: A new collaborative GIS and genomic resource for the scientific community. *Integrative and Comparative Biology*. 51:e203.

Li C, LK Lau, **ST Hsieh**, P Umbanhowar, DI Goldman. **2011** The effect of substrate properties on hind foot use during locomotion of the zebra-tailed lizard. *Integrative and Comparative Biology*. 51:e81.

Smithers CA, **ST Hsieh**. **2011**. Sexually-dimorphic niche and character displacement of the green anole (*Anolis carolinensis*) in the presence of the invasive Cuban brown anole (*Anolis sagrei*). *Integrative and Comparative Biology*. 51:e252.

**Hsieh, ST**, C Smithers\*. **2010**. Adaptive divergence in green anole lizards due to species invasions. *Integrative and Comparative Biology*.

Grassa, C\*, **ST Hsieh**, RJ Kulathinal. **2010**. Using comparative and functional genomics to infer past lineage-specific processes among vertebrates. *Integrative and Comparative Biology*.

St. Louis\*, J, TJ Sanger, **ST Hsieh**. **2009**. How the development and microstructure of toe pad morphology reflect habitat specialization in *Anolis* lizards. *Integrative and Comparative Biology*.

**Hsieh ST**, TJ Roberts. **2008**. Do hindlimb joints serve multiple functions during jumping in the Cuban tree frog? *Integrative and Comparative Biology*. 47(1):e52. **Hsieh ST**. **2004**. Mechanics of terrestrial locomotion in aquatic, amphibious, and terrestrial blennies. *Integrative and Comparative Biology*. 44(6):572 (Abstract 41.5).

**Hsieh ST**. **2003**. Comparative locomotor characteristics of two amphibious blennies, *Alticus arnoldorum* and *Praealticus labrovittatus*. *Integrative and Comparative Biology*. 43(6): 905 (Abstract 26.2).

**Hsieh ST**. **2002**. Fish out of water: the amphibious locomotor repertoire of the Pacific leaping blenny, *Alticus arnoldorum*. *Integrative and Comparative Biology*. 42(6):1246 (Abstract 37.1).

**Hsieh ST**, GV Lauder. **2001**. Running on water: quantitative flow visualization of basilisk lizard locomotion. *American Zoologist*. 41(6):1475(Abstract 16.4).

**Hsieh ST**. **2000**. Ontogenetic 3-D kinematics of water running in green basilisk lizards (*Basiliscus plumifrons*). *American Zoologist*. 40(6):1066(Abstract 21.2).

Autumn K, **ST Hsieh**, W Zesch, WP Chan, R Fearing, RJ Full. **1999**. How gecko feet work. *American Zoologist*. 39(5):105A(Abstract 621).

Autumn K, **ST Hsieh**, DM Dudek, J Chen, C Chitaphan, RJ Full. **1999**. Dynamics of geckos running vertically. *American Zoologist*. 38(5):84A (Abstract 288). Autumn K, **ST Hsieh**, DM Dudek, J Chen, C Chitaphan, RJ Full. **1999**. Function of feet in ascending and descending geckos. *American Zoologist*. 38(5):84A (Abstract 287).

**Hsieh ST**, Lillywhite HB, Ballard RE, Hargens AR. **1998**. Cardiovascular responses of snakes to gravitational gradients. (Annual Meeting of the Professional Research Scientists on Experimental Biology 98, Part 1, San Francisco, California, USA, April 18-22, 1998. ) *FASEB Journal*. 12(4): A333.

Hargens AR, **ST Hsieh**, G Murthy, RE Ballard, VA Convertino. **1995**. Sixteen-day bedrest significantly increases plasma colloid osmotic pressure. *Aerospace Medical Association Meeting, Anaheim, CA, 7-11 May 1995*, p. A23 (Abstract 131).

\* indicates undergraduate co-author

## INVITED TALKS

- Invited workshop speaker**, Robotics Science and Systems, Rome, Italy, **July 2015**
- Invited speaker**, Science on Tap, Philadelphia, PA, **May 2015**
- Invited speaker**, Philadelphia Science Festival, Inspired by Nature, **April 2015**
- Invited speaker**, New Jersey Institute of Technology, Trenton, NJ, **February 2015**
- Invited speaker**, World Congress of Biomechanics, Boston, MA, **July 2014**
- Invited speaker**, Technical.ly Philly, Philadelphia, PA, **July 2014**
- Invited lecturer**, Human Posture & Locomotion, Department of Kinesiology, **April 2014**
- Invited lecturer**, Comparative Physiology (University of Pennsylvania), **March/April 2011-13**
- Research seminar**, Villanova University, Villanova, PA, **February 2014**
- Invited speaker**, Neuromechanics Winter Workshop (NSF-RCN), Princeton, NJ, **January 2014**
- Invited speaker**, Weeknights at the Wagner, Wagner Free Institute, Philadelphia, PA, **November 2013**
- Invited lecturer**, Introduction to Bioengineering (Temple University), **September 2013**
- Invited speaker**, TEDx Temple, Temple University, Philadelphia, PA, **April 2013**
- Keynote Address**, SOLUR Symposium, Arizona State University, Tempe, AZ, **March 2013**
- McGroddy Lecture Series invited speaker**, Saint Joseph's University, Philadelphia, PA, **March 2013**
- Research Seminar**, Drexel University, Philadelphia, PA, **February 2013**
- Invited speaker**, Philadelphia Science Festival, Great Gigs, **April 2012**
- Keynote Address**, SEARCH Awards Ceremony, University of Missouri - Kansas City, **April 2012**
- Research Seminar**, University of Missouri – Kansas City, **April 2012**
- Invited speaker**, Philadelphia Science Festival, Silly Science Café, **April 2012**
- Keynote Address**, Ohio Academy of Sciences Conference, Ashland University, **April 2012**
- Invited speaker**, Faculty Development Conference – Community Engagement Forum, Temple University, **March 2012**
- Opening Keynote Address**, CUR Dialogues, “Inspiring our next generation of leaders through undergraduate research and inquiry-based learning.” Washington D.C., **February 2011.**
- Invited speaker**, Metro-Engagement Forum, “Making Science Less Daunting and More Inspirational to the Public”, Temple University, **February 2011.**
- Congressional Briefing**, Council for Undergraduate Research (CUR), Washington D.C., **October 2010.**
- Research seminar**, University of Pennsylvania, “Morphological evolution in anole lizards due to competitive exclusion”, **October 2010.**
- Invited lecturer**, General Biomechanics (St. Joseph's University), **April 2010.**
- Research seminar**, Academy of Natural Sciences in Philadelphia, “Invasion dynamics: Are morphological changes due to phenotypic plasticity or adaptive evolution in the native green anole lizard?”, **March 2010**
- Departmental seminar**, Wildlife Conservation, University of Florida, “Morphological effects of the invasive brown anole on the native green anole.”, **January 2010**
- Departmental seminar**, University of South Florida, “Terrestrial locomotion and behavior in a marine fish”, **December 2009**
- Departmental seminar**, Whitney Marine Laboratory for the Biological Sciences, “Evolution of terrestriality in a marine fish”, **November 2009**
- Invited lecturer**, Comparative Zoology (University of Florida), **November 2009**

## MENTORING ACTIVITIES

### Postdoctoral

Kyle Mara (2010 – 2013): Locomotor control of an unexpected slip perturbation and recovery.

### Graduate (Ph.D.)

Nicole Mazouchova (2012 – present): Locomotor control strategy during water-land transitions in turtles.

Janne Pfeiffenberger (2012 – present): Effects of limb autotomy on running in crabs.

### Graduate (M.S.)

Elizabeth Tucker (2015 – present): Impacts of drop perturbations on bipedally-running lizards.

### Undergraduates

Alina Gawlinski (2017): Target-based control of limb movement during locomotion on complex surfaces in cellar spiders

Lawrence Gardner (2017): Convergent evolution of locomotion in cellar spiders and daddy long legs

Emily Dabashinsky (2016): Effects of increased load on running in ghost crabs

Eric Tran (2016): Quantifying buoyancy in semi-aquatic turtles

Elizabeth Szablya (2014): Effects of surface hardness on limb use during running in crabs

Vishal Dasari (2013, Univ. of Pennsylvania): Differential limb function during running in spiders

Dallas Malzi (2013): Effects of tail regeneration on locomotion in anole lizards.

Matthew Schmoyer (2013): Database management and design in *lizardbase*

Leslee Everett (2013): Toe pad morphology in green anole lizards.

Yu Liang (2012): Database management and design of *lizardbase*

Sachin Parikh (2011): Effects of inverted running on center of mass dynamics.

\* Students below are from University of Florida unless otherwise noted \*

Amanda Ropp (2009): Biological illustration.

Cherice Smithers (2009): Effects of invasive brown anole on green anole limb plasticity.

Chris Grassa (2010): Functional population genomics.

Tristan Hensley (2010): Single setal force measurements in anoles.

Kevin Carbonell (2011): Hindlimb joint power production during jumping in frogs.

Judith Misas (2011): Muscle mechanical advantage variability in anole ecomorphs.

Israel Salazar (2011): The effects of substrate diameter and stability on lizard locomotion.

Joshua St. Louis (Harvard University, 2009): A phylogenetic comparison of anole toe pad morphology.

### High School Students

Joseph Bondi (2014, Conestoga High School)

Amber Dai (2013 & 2014, Agnes Irwin High School)

Laura Dallara (2013, Agnes Irwin High School)

Seamus Kirby (2013, Science Leadership Academy)

Alina Gawlinski (2012, Hatboro-Horsham High School)

Kunj Shroff (2009, Deerfield Beach High School)

### Graduate Committees

Aja Carter, Ph.D. candidate, University of Pennsylvania. (2014 – present)

Catalina Mantilla, Ph.D. candidate, Florida International University: Biomechanics of Ecomorphs: Investigating patterns in anoles and geckos. (2014 – present)

Erin Graham, Ph.D. candidate: The effects of elevated carbon dioxide and temperature on primary production and inorganic carbon transport in three algal-invertebrate symbioses. (2011-2014)

Laura Skorina, Ph.D. candidate: Leopard frog vision and perception. (2010-2013)

Alex Hastings, Ph.D. candidate: Early Paleogene crocodyliform evolution in the neotropics: Evidence from Northeastern Colombia (2008-2009)

## PROFESSIONAL SERVICE

**Ad-hoc Reviewer** for *Anatomical Record*, *Behavioural Ecology*, *Canadian Journal of Zoology*, *Evolution*, *Functional Ecology*, *Herpetological Journal*, *Integrative and Comparative Biology*, *The Journal of Experimental Biology*, *Journal of Experimental Zoology*, *Journal of the Royal Society Interface*, *Journal of Zoology*, *Philosophical Transactions of the Royal Society*, *Physiological and Biochemical Zoology*, *PLoS One*, *Review of Scientific Instruments*, *Zoology*

**NSF Panelist**, Member, **2013, 2014, 2015**

**Member**, Public Affairs Committee for The Soc. of Integ. & Comp. Biol., **2013 – present**

**Member**, Advisory Board for the Temple Contemporary Galleries, **2013 – present**

**Faculty of 1000**, member, **2012 – present**

**Ad hoc reviewer**, National Science Foundation, IOS, **2010**

**Co-founder**, *lizardbase.org*, **2009 – present**

**Member**, Student Awards Committee for The Soc. of Integ. & Comp. Biol., **2008-2011**

**Judge**, Alachua County Science Fair, Howard Bishop Middle School, **2009**

**Curator**, Encyclopedia of Life *Anolis carolinensis* entry, **2007-2008**

**Contributor**, Michigan-Jamaica library book exchange program, **2007**

**Instructor**, Howard Hughes High School Outreach Program, Harvard Univ., **2003**

**Instructor**, Morse Elementary School After School Science and Math Program, **2001**

## CONFERENCES

American Society of Biomechanics  
(poster presentation: 2011)

American Society of Ichthyologists and Herpetologists  
(paper presentation: 2000; attended only: 1999)

Experimental Biology  
(poster presentation: 1998)

International Congress of Vertebrate Morphology  
(presentation: 2004)

Robotics: Science and Systems  
(presentation: 2015)

Society of Experimental Biology  
(presentation: 2001-2004)

Society of Integrative and Comparative Biology  
(presentation: 1999, 2001-2005, 2008-2014; attended only: 2000, 2006)

World Congress of Biomechanics  
(presentation: 2014)

## SELECT RESEARCH PUBLICITY

### General research coverage

The Inquirer, “Learning from lizards”, 9 January 2012

Temple Magazine, “Do the locomotion”, Spring 2012

### Intertidal behavior of a marine fish

ScienceDaily, “Landlubber fish leap for love when tide is right”, 29 August 2011

National Geographic, “Fish (happily) out of water”, 1 September 2011

### Locomotor innovation for terrestriality in a marine fish

PLoS Blogs Pick of the Month (Mauka to Makai), “Leapin’ blennies”, January 2011

Practical Fishkeeping, “Pacific leaping blenny now considered a terrestrial species”, July 2010

Wired Science (Wired Magazine), “How leaping fish species left the water”, June 2010

### Water running in basilisk lizards

Newton Magazine ([www.newtonpress.co.jp](http://www.newtonpress.co.jp)), 2013.

Kopfball ([www.kopfball.de](http://www.kopfball.de)), 2012.

ABCNow Television, 30 November 2004.  
BBC Radio, “Science In Action” radio show. November 2004.  
BBC News (news.bbc.co.uk), “How lizards walk on water”, 16 November 2004.  
California Academy of Sciences (California Wild), 24 November 2004.CBC Radio, “Quirks & Quarks” radio show. 20 November 2004.  
The Guardian, “How to walk on water”, 18 November 2004.National Geographic News, “How ‘Jesus Lizards’ Walk on Water”. November 2004  
Nature Magazine, “High-speed biomechanics: Caught on camera”  
NewsDay, “Leapin’ lizard walks on water”, 16 November 2004.  
ScienceNow (sciencenow.sciencemag.org), “Watch Your Step”, November 2004.  
SpektrumDirekt ([www.wissenschaft-online.de](http://www.wissenschaft-online.de)), “Mit voller Kraft übers Wasser”, 17 November 2004.  
Spiegel Online ([www.spiegel.de](http://www.spiegel.de)), “Das Geheimnis der Jesus-Echse”, 29 November 2004.

### **Gecko adhesion**

ABC Television, 8 June 2000.  
BBC Television, 12 June 2000.  
BusinessWeek, “Geckos stick like glue – without goo”, 26 June 2000.  
CBC Television, 8 June 2000.  
CBS Television, 8 June 2000.  
CNN Television, 8 June 2000.  
Discovery Channel, 8 June 2000.  
The Economist, “Climbing the walls”, 10 June 2000.  
Los Angeles Times, “Sticky-footed gecko a true force of nature”, 8 June 2000.  
Natural History magazine, “Get a Grip”, July 2000.  
National Geographic News, “Gecko stickum: recipe for synthetic adhesive”, 8 June 2000.  
National Public Radio, 8 June 2000.  
NBC Television, 8 June 2000.  
New York Times, “Pitter-patter of hairy feet”, 13 June 2000.  
Science Magazine, “How geckos climb the walls”, 9 June 2000.

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