

Todd Alan Harvey

Laika Entertainment, LLC
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VFX SHOT PRODUCTION

2006–2006	<i>Charlotte's Web</i> (Charlotte)	Rising Sun Pictures , Adelaide AU Lead Lighting Technical Director
2006–2006	<i>Superman Returns</i> (Fortress of Solitude)	Rhythm & Hues Studios , Los Angeles CA Lighting Technical Director
2004–2005	💡 <i>King Kong</i> (King Kong in New York City)	Weta Digital , Wellington NZ Lead Technical Director
2004–2004	💡 <i>Spiderman 2</i> (Doc Ock and green screen)	Sony Pictures Imageworks , Culver City CA Lighting and Compositing Technical Director
2003–2004	<i>Madagascar</i> (Marty's birthday in the Central Park Zoo)	Dreamworks Feature Animation , Glendale CA Lighting Artist
2002–2003	💡 <i>Lord of the Rings: Return of the King</i> (Gollum) 💡 <i>Lord of the Rings: The Two Towers</i> (Gollum)	Weta Digital , Wellington NZ Lead Sequence Lighting Technical Director Lighting Technical Director
1999–2002	<i>Eight Legged Freaks</i> (spiders) <i>The Patriot</i> (soldiers) <i>Stuart Little</i> (talking cats)	Centropolis Effects , Culver City CA R&D Technical Director 3D Animator Sequence Supervisor
1996–1999	<i>Babe 2: Pig in the City</i> (talking animals) also: <i>Goldies</i> (California cheese commercial), <i>Eggs of Steel</i> (Playstation video game), <i>Race for Atlantis</i> (stereoscopic OMNIMAX theme park ride), <i>Colgate</i> (commercial)	Rhythm & Hues Studios , Los Angeles CA Technical Director

RESEARCH AND DEVELOPMENT

2016–present	<i>Missing Link</i> (asset look development) <i>Film 6</i> pre-production (asset look development) <i>Film 7</i> pre-production (asset look development) also: Implement color pipeline for asset laser scans and reference photography Implement components of lighting and rendering pipeline (primarily Katana macros and OpScripts) Modeling the appearance of 3D printed materials	Laika , Hillsboro OR CG Look Development Artist
2010–2016	<i>Richard O Prum Lab</i> Imaging spectroscopy & reflectance measurements to facilitate research in organismal color phenotypes; Computer modeling of avian courtship displays, plumage morphology and visual signaling.	Yale University , New Haven CT Postdoctoral Associate; Visiting Assistant in Research
2007–2009	<i>Steve Marschner Lab</i> (plumage appearance) <i>Donald P Greenberg Lab</i> (plumage appearance)	Cornell University , Ithaca NY Research Assistantship Research Assistantship

2002–2005	Weta Digital , Wellington, NZ Lead Technical Director Lead Sequence Lighting Technical Director
2001–2002	Centropolis Effects , Culver City CA R&D Technical Director R&D Technical Director
1993–1994	Hughes Danbury Optical Systems , Danbury CT Junior Engineer Optical fabrication: predictive polishing strategies target surface figure by computer simulation
1988–1992	Perkin-Elmer , Danbury CT Internships Optical metrology: developed software component of multiple wavelength scatterometer
	<i>Mark Steier Lab</i> Internship Flexure stress analysis: developed software component of cryogenic test bed

EDUCATION

	Yale University , New Haven, CT
2012–2016	Postdoctoral Associate
2011–2012	Visiting Assistant in Research in Ecology and Evolutionary Biology
	Cornell University , Ithaca, NY
Ph.D., 2012	Spatially- and Directionally-varying Reflectance of Milli-scale Feather Morphology
2006–2010	M.S. student in Computer Graphics
	Brigham Young University , Provo, UT
B.A., 1996	Design
1987–1989	B.S. student in Applied Physics with Computer Applications

SELECTED PUBLICATIONS

“Structural absorption by barbule microstructures of super black bird of paradise feathers.” DE McCoy, T Feo, [TA Harvey](#), RO Prum. *Nature Communications* 9:1, 2018. [doi:10.1038/s41467-017-02088-w](https://doi.org/10.1038/s41467-017-02088-w)

“Visualization of color as birds see it.” J Beneš, [TA Harvey](#), E Velázquez-Armendáriz, and RO Prum. *Proceedings of ACM SIGGRAPH Asia 2013 Posters* 21, 2013. [doi:10.1145/2542302.2542328](https://doi.org/10.1145/2542302.2542328)

“Directional Reflectance and Milli-scale Feather Morphology of the African Emerald Cuckoo, *Chrysococcyx cupreus*.” [TA Harvey](#), KS Bostwick, and S Marschner. *Journal of the Royal Society Interface* 10:20130391. [doi:10.1098/rsif.2013.0391](https://doi.org/10.1098/rsif.2013.0391)

“Measuring Spatially- and Directionally-varying Light Scattering from Biological Material.” [Todd Alan Harvey](#), Kimberly S. Bostwick, and Steve Marschner. *Journal of Visualized Experiments* 75:e50254, 2013. [doi:10.3791/50254](https://doi.org/10.3791/50254)

“3D Imaging Spectroscopy for Measuring Hyperspectral Patterns on Solid Objects.” MH Kim, [TA Harvey](#), DS Kittle, H Rushmeier, J Dorsey, RO Prum, and DJ Brady. *ACM Transactions on Graphics* 31:4, August 2012, pp. 38:1–11. [doi:10.1145/2185520.2185534](https://doi.org/10.1145/2185520.2185534)

PUBLISHED DATA AND SOFTWARE

Data from: "Directional reflectance and milli-scale feather morphology of the African Emerald Cuckoo, *Chrysococcyx cupreus*." TA Harvey, KS. Bostwick, and S Marschner. *Dryad Digital Repository*, July 2013. ([doi:10.5061/dryad.332b5](https://doi.org/10.5061/dryad.332b5))

SELECTED AWARDS

I have had the privilege of contributing to numerous projects that have either received or been nominated for Academy Awards, British Academy (BAFTA) Film Awards, Golden Globe Awards, Annie Awards and Visual Effects Society (VES) Awards.

Most recently I was recognized along with two colleagues with a nomination for Outstanding Model in a Photoreal or Animated Project by the Visual Effects Society: Todd Alan Harvey, Dan Casey, and Katy Hughes, the Manchuria in *Missing Link*, January 2020.

AFFILIATIONS AND ASSOCIATIONS

Association for Computing Machinery's Special Interest Group on Computer Graphics and Interactive Techniques (AMC SIGGRAPH); Visual Effects Society (VES); ASIFA-Hollywood; The Society for Integrative and Comparative Biology (SICB)

VOLUNTEER WORK AND OUTREACH ACTIVITIES

Recent years	Boy Scouts of America, Cascade Pacific Council, Troop 339 Committee Chair.
	Boy Scout of America Connecticut Yankee Council, Troop 728 Assistance Scout Master.
1990–1992	Service mission for the Church of Jesus Christ of Latter-day Saints, Norway Oslo Mission, Oslo, Norway

OTHER

Photography, backpacking, cycling