

**Barbara J. Meier**  
**Distinguished Senior Lecturer in Computer Science**  
**Curriculum vitae**

**Education**

Postgraduate art and design education

Rhode Island School of Design, Providence, 2002-8.  
Art Center College of Design, Pasadena, 1998.  
School of the Museum of Fine Arts, Boston, 1988-9.

M.S. Computer Science, Brown University, 1987.

*ACE: A Color Expert for User Interface Design.*

B.A. Computer Science, Brown University, 1983.

**Professional Appointments and Employment**

Distinguished Senior Lecturer, Brown University Dept. of Computer Science, 2023-present

Senior Lecturer, Brown University Dept. of Computer Science, 2012-2023

Adjunct Assistant Professor, Brown University Dept. of Computer Science, 2008-2012

Visiting Assistant Professor, Brown University Dept. of Computer Science, 2006-2008

Visiting Lecturer, Brown University Dept. of Computer Science, 2003-2006

Researcher, Brown University Dept. of Computer Science, 1999-2003

CG Supervisor and Senior Visual Effects Animator, Hammerhead Productions, Los Angeles, 1996, 1997-8, 2001

Art Director, Cinesite, Los Angeles, 1997

Technical Art Director, Walt Disney Feature Animation, Los Angeles, 1995-97

CG Supervisor and Senior Visual Effects Animator, Pacific Data Images, Los Angeles, 1991-95

Member of Graphics Research Staff, Brown University Dept. of Computer Science, 1983-7

**Publications**

**Refereed journal articles**

Barbara J. Meier, Anne Morgan Spalter, David B. Karelitz. Interactive Palette Tools. *IEEE Computer Graphics and Applications*, 24 (3), May/June 2004.

Robert D. Kalnins, Lee Markosian, Barbara J. Meier, Michael A. Kowalski, Joseph C. Lee, Philip L. Davidson, Matthew Webb, John F. Hughes and Adam Finkelstein. WYSIWYG NPR: Drawing Strokes Directly on 3D Models, *Transactions on Graphics*. Proc. SIGGRAPH, July 2002.

Barbara J. Meier, BUCOLIC: A program for teaching color theory to art students. *IEEE Computer Graphics and Applications* 5 (7), July 1985.

### **Refereed conference papers**

Barbara J. Meier, A Focused Animation Curriculum Model. In Special Interest Group on Computer Graphics and Interactive Techniques Conference Educator's Forum (SIGGRAPH '22 Educator's Forum ), August 07-11, 2022. ACM, New York, NY, USA, 2022.

Anne Morgan Spalter, Philip A. Stone, Barbara J. Meier, Timothy S. Miller, and Rosemary Michelle Simpson. Interaction in an IVR Museum of Color. SIGGRAPH 2000, Conference Abstracts and Applications Proceedings, reprinted in *Leonardo* 35:1, MIT Press, 2000.

Lee Markosian, Barbara J. Meier, Michael A. Kowalski, Loring S. Holden, J. D. Northrup and John F. Hughes. Art-based Rendering with Continuous Levels of Detail. Proc. NPAR 2000 (Non-Photorealistic Animation and Rendering), Annecy, France, June 2000.

Barbara J. Meier. Painterly Rendering for Animation. Proc. SIGGRAPH, August 1996.

Barbara J. Meier. ACE: A Color Expert System for User Interface Design. Proc. SIGGRAPH Symposium on User Interface Software, Banff, Alberta, October 1988.

### **Invited talks**

SIGGRAPH 2022 Educator's Forum (virtual), Vancouver, 2022.

Max Planck Institute for Intelligent Systems, Tübingen, Germany, April 2019.

Animation in Media, panel moderator, Ivy Film Festival, 2015.

Cartoon Master Digital, A Coruna, Spain, 2005.

SIGGRAPH 2003, San Diego, 2003.

Pixar Animation Studios, San Rafael, 1997.

SIGGRAPH 1996, New Orleans, 1996.

Brown University Advancement, San Francisco, 1985.

SIGGRAPH Symposium on User Interface Software, Banff, Alberta, 1988.

Brown University course guest lecturer, 1983-88, 2003-8.

SIGGRAPH 86, Dallas, 1986.

NCGA Computer Graphics '86 Conference, Anaheim 1986.

Massachusetts College of Art, Boston, 1985.

NERCOMP, Brookline, Massachusetts, 1985.

Apple Computer, Inc., Cupertino, 1985.

ACADE (Art + Design Education), Minneapolis, 1984.

### **Feature film and music video credits**

*Showtime* (2001)

*Paulie: A Parrot's Tale* (1998)

*Sphere* (1998)

*Shadowbuilder* (1997)

*Devil's Advocate* (1997)

*Romeo + Juliet* (1996)

*Kazaam* (1996)

Michael Jackson's *Is This Scary* (1995)

*Bushwacked* (1995)

*Speechless* (1994)

*True Lies* (1994)

*Double Dragon* (1994)

*Heart and Souls* (1993)

*Children of the Corn II* (1993)

*Cliffhanger* (1993)

*Toys* (1992)

Michael Jackson's *Remember the Time* (1992)

David Byrne's *She's Mad* (1992)

*Batman Returns* (1992)

Disney's Circlevision *From Time to Time* (1992)

Michael Jackson's *Black or White* (1991)

*Star Trek VI* (1991)

### **Animated films**

Toymaker, 2017

Festivals and awards:

Athens ANIMFEST 2018, **Student Music Award**, Athens, Greece, March 2018

Animated Arizona Film Festival, Tucson, AZ, March-April 2018

KIDS FIRST! Film Festival, Online, 2018-19

Los Angeles International Children's Film Festival, Los Angeles, December 2018

Pennsylvania Indie Shorts Film Festival, **nominated Best Animated Film**, East Stroudsburg, PA, December 2018

Providence Children's Film Festival, Providence, February 2019

Green Bay Film Festival, Green Bay, WI, March 2019

Canton Film Festival, Canton, OH, April 2019

Move Me Productions Online Festival, **Winner Best Short Animated Film**, June 2019

Sandpoint Radius Film Festival, Sandpoint, ID, June 2019

Film Festival of Columbus, Columbus, OH, September 2019

San Diego International Children's Film Festival, San Diego, CA, October 2019

Water Tower Cinema Youth Film Series, Montgomeryville, PA, December 2020

SKYLIGHT, 16mm film, 1989.

Firebird, 16mm film, 1988.  
Ginger Rising, 16mm film, 1986.

## **Images**

Haystacks, computer image, 1996. Cover Proc. SIGGRAPH, SIGGRAPH Technical slide set, also published in several books.

Haystack compositing example, computer image, 1996. Published in several books.

An example of the painterly rendering pipeline, computer image, 1996. Published in a book.

Four styles of painterly rendered fruit, computer image, 1996. Published in several books.

Haystacks, computer-generated animation, 1996. SIGGRAPH video review. Stills reproduced in books.

Color Choreography, computer image, with David Laidlaw, 1986, 2nd place, student category, Raster Technologies Image Contest, 1986; permanent collection, Boston Computer Museum, since 1986; SIGGRAPH Technical Slide Set, 1986; also published in many books.

Three Views of the CIE Color Space, computer image, 1986, published in several books.

Spectral Distributions, computer image, 1986, published in several books.

Images from BUCOLIC, computer images, SIGGRAPH Computer Supported Design Exhibition and Slide Set, 1984, IEEE *Spectrum*, June 1994, also published in several books.

Self-portraits, hand-colored black and white photographs, Senior Show, List Art Center, Brown University, May 1983.

Floral Composition, computer image, cover, *Brown Alumni Monthly*, 83:3, November 1982.

## **Other publications**

Barbara J. Meier. Computers for Artists Who Work Alone. *Computer Graphics* 32 (1), February 1999.

Barbara J. Meier. Effective Use of Color in User-Computer Interface Design. Dept. of Computer Science Tech Report, Brown University, 1987.

## **Service**

### **University**

Junior Faculty Mentor, 2023-present.

Peer teaching evaluator, CS Dept., 2020-present.

Brown RISD Dual Degree (BRDD) Joint Steering Committee 2021-present.

Undergraduate Advising including BRDD students 2010-present:

Graduate advising 2008-present

Lecturer Search Committee, member and diversity representative, CS Dept, 2020-21, 2021-22.

Steering committee of the Women in the Physical Sciences Group, Brown University, 2020-present.

Committee for Excellence in Teaching Awards, 2014.

Co-sponsor with RISD, annual International Animation Show of Shows Film Festival. 2008-2018.

Chair (2008-9), Member (2009-10), Institutional Image and Public Relations Committee, Dept of Computer Science, Brown University, 2008-10.

Member, Diversity Committee, Department of Computer Science, Brown University, 2008-10.

Ad hoc CS Renovations committee, WICS (Women in Computer Science), Brown Motion Pictures, Ivy Film Festival. Ongoing.

### **Professional**

Papers committee for Expressive Joint Symposium of Computational Aesthetics (CAe), Non-Photorealistic Animation and Rendering (NPAR), Sketch-Based Interfaces and Modeling (SBIM) 2000, 2002, 2004, 2010-2019

Paper reviewer for conferences and journals 1988-2022: ACM SIGGRAPH, ACM SIGGRAPH Asia, ACM *Transactions on Graphics*, *Journal of Graphics Tools*, *IEEE Computer Graphics and Applications*, IEEE Visualization conference, *IEEE Transactions of Visualization and Computer Graphics*, *Computer Animation and Virtual Worlds*, *Computers & Graphics*, *Color Research and Application*, *Graphics Interface*, ACM SIGCHI.

Book reviewer for Routledge, Taylor & Francis Group, 2020; Fairchild/Bloomsbury books, 2014; Focal Press, 2008-9

Judge, Machinima Animation Competition, Ivy Film Festival, 2009-10.

### **Academic and Professional Honors**

Best Short Animated Film, Move Me Productions Festival, June 2019

Philip J. Bray Award for Excellence in Teaching, Brown University, 2013-15.

Membership, Sony Pictures Imageworks Professional Academic Excellence program. 2009-present.

Finalist, International Monitor Award for Best Electronic Special Effects (Feature Film), *Heart and Souls*, 1994.

Finalist, International Monitor Award for Best Electronic Special Effects (Music Video), David Byrne's *She's Mad*, 1992.

*True Lies* nominated for Academy Award Best Visual Effects, 1994.

Winner, International Monitor Award for Best Electronic Special Effects (Music Video), Michael Jackson's *Black or White*, 1992.

Raster Tech Image contest, 1984.

Sigma Xi, 1983.

## **Teaching**

### **Courses**

CSCI 1250 Introduction to 3D Computer Animation, Fall semester, 2003-2017, 2019-2022.

CSCI 1280 Intermediate Computer Animation, Spring semester, 2007-9, 2011-18, 2020-2023.

CSCI 1950T Advanced Animation Production, Fall 2011, 2016, 2023

CSCI 1950N (CSCI 1971) 2D Game Engines, Fall, 2016, 2017. Faculty advisor to student-led course.

CSCI 1950U (CSCI 1972) 3D Game Engines, Spring, 2017, 2018 Faculty advisor to student-led course.

### **Independent Studies and UTRAs**

2-9 per semester 2002-present

### **Group Independent Study Projects (GISPs)**

Animation Film Production, 6 enrolled, 3 audits, Spring 2009.

### **Advising**

Brown RISD Dual Degree academic advisor 2015-present

Concentration advising 2011-present

Academic advising graduate students, 2008-present

RISD Dual Degree Capstone Advisor, 2016, 2020, 2022, 2023.

Independent concentration advising 2007-10.