

Christoph Bregler

NYU Courant Institute
719 Broadway, 12th floor
New York, NY 10003

chris.bregler@nyu.edu
<http://cims.nyu.edu/~bregler>
+1-212-998-3208

EDUCATION

University of California, Berkeley, CA, 09/93 – 05/98

Ph.D. in Computer Science, 1998, M.S., 1995
Thesis: Computational Models of Human Motion
Advisors: Jerome A. Feldman, Jitendra Malik

University of Karlsruhe, Germany, 10/87 – 09/93

Diplom in Computer Science, 1993
Thesis: Computer Lipreading
Advisor: Alex Waibel

PROFESSIONAL EMPLOYMENT

New York University, Computer Science Dept., Courant Institute, New York, 09/02 – present

Full Professor (tenured) / (previously Associate Professor (tenured) / Asst. Professor):
Vision, Graphics, Motion-Capture, Learning, and New Media.

Various (ongoing) short-term consulting arrangements: Expert-Witness, IP Evaluation, Project Planning, Research, etc (clients included 20th Century Fox, Paladin Capital Group, Cowan Leibowitz & Latman P.C., Sheppard Mullin Richter & Hampton LLP, Gray Cary Ware & Freidenrich LLP, TAEUS, Lightstorm Entertainment, ESC Entertainment)

Lucasfilm, Industrial Light & Magic, San Francisco, 08/07 – 08/08

Consultant

Stanford University, Computer Science Department, CA, 01/99 – 08/02

Assistant Professor: Vision, Graphics, Learning.

Disney Feature Animation, Burbank, CA, 2001 + 2002

Consultant: Vision Based Motion Capture for Gemeni Project (Facial Animation)
In Lance William's Group.

New York University, Courant Institute/Media Research Lab, New York, 08/98 – 01/99

Visiting Scholar: Research on Vision and Animation,
In Ken Perlin's/ Davi Geiger's group.

Interval Research Corp., Palo Alto, CA, 05/95 – 10/97

Consultant: Developed Facial Animation System: Video Rewrite
In Malcolm Slaney's and Michele Covell's group

University of California, Berkeley, Computer Science Dep. and ICSI, 01/93 – 07/98

Research Assistant: Statistical Learning, Visual-Acoustic Speech Recognition,

Object Recognition, Human Body Tracking/Animation
In Stephen Omohundro's, Jerry Feldman's, Nelson Morgan's,
and Jitendra Malik's Group.

Hewlett-Packard Laboratories, Palo Alto, CA, 09/91-03/92

Software Engineer: Developed System Software for Physician's Workstation Project
In Paul Tang's group.

San Francisco State University, San Francisco, CA, 04/91-03/92

Visiting Scholar: Research on Neural Networks. In Gerald Eisman's group.

Hewlett-Packard, Research and Development, Waldbronn, Germany, 10/90-04/91

Part-time Software engineer, Firmware development for HP's Liquid
Chromatography system.

Memorex-Telex PC Division, Milpitas, CA, 07/90-10/90

Intern. Hardware testing, marketing research.

Fraunhofer Institute, FhG, Karlsruhe, Germany, 10/88-7/90

Research Assistant: Implemented Human Body tracking system.
In Prof. Nagel's and Karl Rohr's group.

IBM Research and Development, Boeblingen, Germany, 07/89-10/89

Intern. Software tools development.

IBM Development Lab, Sindelfingen, Germany, 07/88-10/88

Intern. Software tools development.

HONORS

- 2011 Best in Show Award & Peter Sullivan Award, 19th Malofiej International Infographics Awards, for "How Mariano Rivera Dominates Hitters" with NY Times collaboration.
- IEEE 2008 *Longuet-Higgins Prize* (for Fundamental Contributions in Computer Vision that Have Withstood the Test of Time)
- Finalist, *Blavatnik Award 2007* (New York Academy of Science)
- *Reese Prosser Memorial Lecture 2005* (Dartmouth)
- *Motion Capture Society World Records*: Squidball: Most Interactive Capture (Incumbent), Largest Markers (Incumbent), Largest Capture (2004)
- *Program Chair*, SIGGRAPH 2004, Computer Animation Festival & Electronic Theater
- *Sloan Research Fellow*, 2003, 2004
- *Olympus Prize*, 2002, (German Vision / AI Society DAGM honors every year 1 outstanding scientist)
- *I.E. Block Community Lecture*, 50th Anniversary of SIAM community, 2002
- *IEEE CVPR 2001 Best Student Paper* (Co-Author / Advisor of student)
- *Stanford Terman Fellow*, 1999
- *Stanford Joyce Faculty Fellow*, 1999
- *ACM Doctoral Dissertation Nomination*, 1998

OTHER PROFESSIONAL ACTIVITY

Editorial Boards:

International Journal of Computer Vision (Springer)

IEEE Transaction of Pattern Analysis and Machine Intelligence
Foundations and Trends in Computer Graphics and Vision (Now Publishers)

Other Boards:

Board of Directors, Dance Notation Bureau, NYC
Board of Directors, SONA Research, San Francisco
Advisory Board, Max Planck & Stanford University Center for Visual Computing and
Communication
Advisory Board, MaMoCa, Los Angeles
Advisory Board, Machine Perception Technologies, San Diego

Program Committees:

Program Chair, Pacific Graphics, 2012
Prix Ars Electronica Jury, Linz, 2010
ACM SIGGRAPH 2009 General Jury
Prix Ars Electronica Jury, Linz, 2009
Program Chair IEEE Workshop on Motion and Video Computing, Snowbird, Utah, 2009
IEEE CVPR 2007
ACM SIGGRAPH Papers 2006
ACM SIGGRAPH Papers 2005
Area Chair for IEEE CVPR, 2005
ACM SIGGRAPH Electronic Theater & Computer Animation Festival, Chair 2004
IEEE CVPR, Madison, Wisconsin, 2003,
AAAI, Edmonton, Alberta, Canada 2002,
Eurographics, Sarbruecken, Germany, 2002,
Pacific Graphics, Beijing, China, 2002,
IEEE CVPR, Hawaii, 2001,
Graphics Interface, Ottawa, Ontario, Canada, 2001,
IEEE Workshop on Human Motion, Austin, TX 2001,
Area Chair for IEEE CVPR, Hilton Head, SC, 2000,
IEEE Workshop on Human Modeling, Hilton Head, SC, 2000,
Vision, Modeling, and Visualization, Stuttgart, Germany, 2001,
IEEE Computer Animation, Seoul, Korea, 2001,
IEEE Computer Animation, Philadelphia, 2000,
ACM SIGGRAPH Animation Sketches, New Orleans, 2000,
Audio-Visual Speech Processing, Santa Cruz, 1999,
IEEE Int. Workshop on Modeling People, Corfu, Greece, 1999

Review Panels:

NSF review panel for various programs in 2008, 2007, 2005, 2003, 2002, 2001, 1998
Sloan Foundation Feature Film Grant Judge, 2011, 2010, 2009, 2006, 2005, 2004, NYU
Tisch School of Arts Film&TV & Sloan Foundation

Reviewer:

MacArthur Foundation, ACM SIGGRAPH, SCA, Advances in Neural Information
Processing Systems, IEEE CVPR, EE Computer Animation, IEEE Int. Conf on
Robotics and Automation,
Int. Journal on Computer Vision, Trans. on Pattern Analysis and Machine Intelligence,
Journal of Computer Vision and Image Understanding, Trans. On Image Processing,
Journal on Artificial Intelligence Research, Journal of VLSI Signal Processing Systems
For Speech, Image, and Video Technology.

GRANTS

ONR Grant: Dyadic and Crowd Analytics from Video, 10/11-09/14

PI: C. Bregler , \$1,050,000 / 3 years

AFRL SBIR Phase II Grant: Automated Analysis and Classification of Anomalous 3-D Human Shapes and Hostile Actions, 05/11-04/13

PI: K. Atul, NYU-PI: C. Bregler , \$250K subcontract to NYU.

ONR Grant: Statistical Analysis of Body Signatures. 12/08 – 10/11

PI: C. Bregler, \$900K / 3 years + DURIP of \$572K = total \$1,472,000

Google Faculty Research Award, Space-Time Mash-Up, 05/10-05/11

PI: C. Bregler, \$30K / 1 year

AFRL SBIR Phase I Grant: Automated Analysis and Classification of Anomalous 3-D Human Shapes and Hostile Actions, 05/10-11/11

PI: K. Atul, NYU-PI: C. Bregler , \$33K subcontract to NYU.

NSF Grant: SGER: The Grammar of Immersive Interactive Narrative. 08/07 – 07/08

PI: Scott Snibbe, C. Bregler, \$130K / 1 year (subcontract to SONA research)

ONR Grant: Intrinsic Biometrics for Human Motion Signatures. 05/07 – 12/08

PI: C. Bregler, \$280K / 1.5 years

NSF Grant: Laban Capture, Perceptual Models of Dynamics. 09/03 – 09/07

PI: C. Bregler, Co-PI: Ted Warburton (Dance Education), Peggy Hackney (IMS);
\$672K / 3 years

NSF Grant: ITR: New Technology for the Capture, Analysis and Visualization of Human Movement. 09/03 – 09/07

PI: R. Chellappa, UMD, Co-PI, C.Bregler, NYU, J Jeka, T. Andriacchi, Stanford, L. Davis, UMD;
NYU part \$320K / 3 years

Sloan Research Fellow, 09/03 – 09/05, \$40K / 2 years

ONR-MURI Detecting Human Activity with a network of vision sensors. 10/01 – 10/06

PIs: J. Malik, Co-PIs: C. Bregler, D. Forsyth, J. Canny, S. Russell, M. Jordan, P. Perona, M. Mataric;
Subcontract for \$750K / 5 years (to NYU now)

NSF Grant: Models of Human Kinematics, 09/00 – 08/03

PI: Bregler; \$340K / 3 years

NSF CISE Research Instrumentation: High-Speed Motion Acquisition, 09/00 – 08/03

PI: Bregler, Co-PI: Andriacchi, Hanrahan;
\$200K / 3 years

Stanford BIO-X: "Move-to-a-Cure" 10/00 – 10/02

Collaboration with Medical School to analyze Movement Disorders.

PI: Bronthe-Steward, Co-PI: Bregler; Alexander
\$200K / 2 years

Stanford Office of License and Technology Research Incentive grant for Cartoon Capture, 2001

PI: Bregler, Loeb; \$25K

Stanford Terman Fellowship, 1999-2001

Stanford Noyce Faculty Scholarship, 1999-2000

Gift Fund from Electronic Arts, 2001, \$45K

Gift Fund from Microsoft Research, 2000, \$20K

California MICRO, Interval, Recognition of Human Motion in Video, 07/96-07/98
Faculty PI: J. Feldman; Student PI: C. Bregler;
\$100K / 2 years

PUBLICATIONS (for most recent and complete list see <http://cims.nyu.edu/~bregler/pubs.html>)

Refereed Papers

Markerless Motion Capture in the Crowd
Ian Spiro, Thomas Houston, Christoph Bregler, Collective Intelligence, 2012

Learning Invariance by Imitation
Graham Taylor, Ian Spiro, Christoph Bregler, and Rob Fergus,
To appear in Proc. of the 24th IEEE Computer Society Conference on Computer Vision and
Pattern Recognition (CVPR) 2011

Pose-Sensitive Embedding by Nonlinear NCA Regression
G. Taylor, R. Fergus, I. Spiro, G. Williams and C. Bregler
Proc. of Advances in Neural Information Processing Systems (NIPS) 23, 2010

Convolutional Learning of Spatio-temporal Features
G. Taylor, R. Fergus, Y. LeCun and C. Bregler
Proc. of the 11th European Conference on Computer Vision (ECCV), 2010

Body Motion Analysis for Multi-Modal Identity Verification
G. Williams, G. Taylor, K. Smolskiy, C. Bregler
IEEE Int. Conf. on Pattern Recognition, 2010

Improving Acoustic Speaker Verification with Visual Body-Language Features
C. Bregler, G. Williams, S. Rosenthal, I. McDowall
Proc. IEEE Int. Conference on Acoustics Speech and Signal Processing, 2009

Large Displacement Optical Flow
T. Brox, C. Bregler, J. Malik
Proc. IEEE Conf. Computer Vision and Pattern Recognition, 2009

Non-Rigid Structure-From-Motion: Estimating Shape and Motion with Hierarchical Priors
L. Torresani, A. Hertzmann, C Bregler
IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 30, No. 5, May 2008

Learning Motion Style Synthesis from Perceptual Oversatations
Lorenzo Torresani, Peggy Hackney, Christoph Bregler
Proc. Of Neural Information Processing (NIPS) 2007.

Squidball: An Experiment in Large Scale Motion Capture and Game Design
C. Bregler, C. Castiglia, J. DeVincenzo, L. Dubois, K. Feeley, T. Igoe, J. Meyer, M. Naimark, A.
Postelnicu, M. Rabinovich, S. Rosenthal, K. Salen, J. Sudol, B. Wright

Proc. Intelligent Technologies for Interactive Entertainment (INTETAIN) 2005, Springer Lecture Notes in Artificial Intelligence

Mood Swings: Expressive Speech
Erika Chuang, Chris Bregler
Transactions on Graphics 2005

Speaking with Hands: Creating Animated Conversational Characters from Recordings of Human Performance
M. Stone, D. DeCarlo, I. Oh, C. Rodriguez, A. Stere, A. Lees, C. Bregler
Proc. *ACM SIGGRAPH* 2004.

Estimation of skeletal kinematics through high feature density video based motion capture
Gene Alexander, Tom Andriacci, Chris Bregler
Eighth International Symposium on the 3-D Analysis of Human, 2004

Twist based Acquisition and Tracking of Animal and Human Kinematics
Christoph Bregler, Jitendra Malik, Kathy Pullen
Int. *Journal of Computer Vision (IJCV)*, 56(3), 179-194, 2004.

Learning Non-Rigid 3D Shape from Video
Lorenzo Torresani, Aaron Hertzmann, Christoph Bregler
Proc. *Of Neural Information Processing Systems (NIPS)* 2003.

Nonrigid Modeling of Body Segments for Improved Bone Motion Estimation
Eugene J. Alexander, Christoph Bregler, Tom P. Andriacchi
Computer Modeling in Engineering and Science, Vol. 4, Number 3 & 4, pp. 351-364, 2003.

Facial Expression Space Learning,
Erika Chuang, Hrishi Deshpande, Christoph Bregler
Proc. *Pacific Graphics*, 2002.

Turning to the Masters: Motion Capturing Cartoons
Chris Bregler, Lorie Loeb, Erika Chuang, Hrishi Deshpande
Proc. *ACM SIGGRAPH* 2002, 399-407.

Motion-Capture assisted Animation: Texturing and Synthesis
Kathy Pullen, Chris Bregler
Proc. *ACM SIGGRAPH* 2002, 501-508.

Space-Time Tracking
Lorenzo Torresani, Chris Bregler
Proc. *European Conference of Computer Vision (ECCV)*, 2002, 801-812.

CVPR Best Student Paper Award:

Tracking and Modelling Non-Rigid Objects with Rank Constraints
Lorenzo Torresani, Danny Yang, Gene Alexander, Christoph Bregler
Proc. *IEEE Computer Vision and Pattern Recognition (CVPR)*, 2001.

Limb Segment Pose from Range Data Streams Through Homogenous Factorization
Eugene J. Alexander, Christoph Bregler, Tom P. Andriacchi
BED-Vol.50, Bioengineering Conference ASME 2001.

Animating by Multi-level Sampling

Katherine Pullen and Christoph Bregler
Proc. IEEE Computer Animation 2000, 36-42.

Recovering Non-Rigid 3D Shape from Image Streams
Christoph Bregler, Aaron Hertzmann and Henning Biermann
Proc. IEEE Computer Vision and Pattern Recognition (CVPR), 2000, 2/690-696.

Tracking People with Twists and Exponential Maps
Christoph Bregler and Jitendra Malik
Proc. IEEE Computer Vision and Pattern Recognition (CVPR), 1998. 8-15.

Video Rewrite: Driving Visual Speech with Audio
Christoph Bregler, Michele Covell, and Malcolm Slaney
Proc. ACM SIGGRAPH 1997, 353-360.

Learning and Recognizing Human Dynamics in Video Sequences
Christoph Bregler
Proc. IEEE Computer Vision and Pattern Recognition (CVPR), 1997.

Learning Appearance Based Models: Mixtures of Second Moment Experts
Christoph Bregler, Jitendra Malik
Advances in Neural Information Processing Systems (NIPS), 1996, 845-850.

Eigen-Points
Michele Covell, Christoph Bregler
Proc. IEEE Int. Conf. on Image Processing (ICIP), 1996.

Finding Naked People
Margaret M. Fleck, David A. Forsyth, Christoph Bregler
Proc. 4th European Conf. Computer Vision, Cambridge, UK, (ECCV) 1996, 594-602.

Nonlinear Manifold Learning for Visual Speech Recognition
Christoph Bregler, Stephen M. Omohundro
Int. Conf. Computer Vision (ICCV), 1995, 494-499.

Nonlinear Image Interpolation using Manifold Learning
Christoph Bregler, Stephen M. Omohundro
Advances in Neural Information Processing Systems (NIPS), 1994, 973-980.

"Eigenlips" for Robust Speech Recognition
Christoph Bregler, Yochai Konig
Proc. IEEE Int. Conf. on Acoustics, Speech, and Signal Processing, Adelaide, Australia, 1994.

Surface Learning with Applications to Lipreading
Christoph Bregler, Stephen M. Omohundro
Advances in Neural Information Processing Systems (NIPS), 1993, 43-50.

Improving Connected Letter Recognition by Lipreading
Christoph Bregler, Herman Hild, Stefan Manke, Alex Waibel
in *Proc. IEEE Int. Conf. on Acoustics, Speech, and Signal Processing*, 1993.

Bimodal Sensor Integration on the Example of "Speechreading"
Christoph Bregler, Stefan Manke, Herman Hild, Alex Waibel
Proc. of IEEE Int. Conf. on Neural Networks, 1993.

Refereed Workshop Papers / Abstracts:

Hands by hand: crowd-sourced motion tracking for gesture annotation
I. Spiro, G. Taylor, G. Williams, C. Bregler
IEEE CVPR Workshop on Automatic Vision with Humans in the Loop, 2010

Learning local spatio-temporal features for activity recognition
G. Taylor, C. Bregler
Snowbird Learning Workshop, 2010

Identifying People based on their Motion Signature
G. Williams, G. Taylor, I. Spiro, C. Bregler
Snowbird Learning Workshop, 2010

ILM's Multitrack: A new visual tracking framework for high-end VFX production
C. Bregler, K. Bhat, J. Saltzman, B. Allen
ACM SIGGRAPH 2009 talks.

Learning to Synthesize Motion Styles
L. Torresani, P. Hackney, C. Bregler
Learning at Snowbird 2006.

From Motion Capture to Motion Texture
K. Pullen, C. Bregler
ACM SIGGRAPH 2000 Sketches.

Invited Book Chapters / Papers / Keynotes / Performances / Videos:

Book Chapter with Malcolm Slaney on Video Based Speech Animation in
Vatikiotis-Bateson, E., G. Bailly & P. Perrier (2012). Audiovisual Speech Processing.
Cambridge, UK. Cambridge University Press.

“Familiar but Strange: Exploring our Relationship with Robots”, New York Academy of
Sciences Panel, December 5, 2011

“Technological Advances in Clinical Practice” American College of Sports Medicine Annual
Conference at NYU Medical Center, November 12, 2011

Panel at TRIBECA DOOMSDAY FILM Festival, “The Singularity is Nigh”, New York City,
October 22, 2011

Kick-Off Colloquium at Stony Brook cDACT, Data Sensorium, “Crowds and Clouds and
Motion Capture”, October 21, 2011

Non-Rigid Models in Science and Entertainment

Christoph Bregler
Invited Talk & Abstract in Journal of Perception, APGV-ECVP Joint Symposium, Toulouse,
August 28th, 2011

Key-Note Speaker 4th Non-Rigid Shape Analysis IEEE CVPR 2011 Workshop, June 24, 2011

Evolution of Sport Talk (TED like talk) MIT Sloan Sports Analytics Conference, March 4th,
2011

Experiments in Crowd Gaming (Squidball 3) at Ars Electronica 2010 Festival

Sep 2 - 7, 2010

New York Times Magazine Interactive Feature for Mariano Rivera's Pitching Motion

July 4th, 2010

Motion Capture Technology for Entertainment

C. Bregler, IEEE Signal Processing Magazine, November 2007

ACM SIGGRAPH Performance-Driven Facial Animation Course, 2006

The Annual Reese Prosser Memorial Lecture: The Modern Mathematics of Motion Capture – From Muybridge through Disney and Beyond, Dartmouth College, Oct, 2005

Invited I.E. Block Community Lecture (Plenary Talk) SIAM 50th Anniversary and 2002 Annual Meeting, Philadelphia, 2002

Key-Note Speaker at Dynamics Workshop, European Conference on Computer Vision (ECCV) 2002,

Key-Note Speaker at Vision, Modeling, and Visualization (VMV), 2000.

ACM SIGGRAPH Image Based Modeling and Rendering Course, 1998,1999,2000

Probabilistic Models of Verbal and Body Gestures

C.Bregler, S.Omohundro, M.Covell, M.Slaney, S.Ahmad, D.A.Forsyth, J.A.Feldman as chapter in *Computer Vision in Man-Machine Interfaces* (R. Cipolla and A.Pentland eds), Cambridge University Press, 1998

Video Rewrite

C.Bregler, M.Covell, M.Slaney

Machines that Learn, Snowbird, Utah, 1998

and

Imagina, Monaco, 1998

Learning Visual Motion Models for Lip Reading

Christoph Bregler, Stephen M. Omohundro

Chapter in *Motion-Based Recognition*, (M. Sha and R. Jain eds), Kluwer Academic Press, 1996.

Finding Objects in Image Databases by Grouping

J. Malik, D. Forsyth, M. Fleck, H. Greenspan, T. Leung, C. Carson, S. Belongie, and C. Bregler
Proc. IEEE Int. Conf. on Image Processing (ICIP-96), special session on "Images in Digital Libraries", 1996.

A Hybrid Approach to Bimodal Speech Recognition

C.Bregler, S.Omohundro, Y.Konig

in *Proc. of 28th Annual Asilomar Conf. on Signals, Systems, and Computers, Pacific Grove, CA 1994.*

Technical Reports:

Body Signature Recognition

George Williams, Christoph Bregler, Peggy Hackney, Sally Rosenthal, Ian McDowall, Kirill Smolksiy (NYU-TR-2008-915)

Symmetries of Dance

Y. Liu, X. Yang, M. Spivak, C. Bregler (TR CMU-RI 2007)

Head-E-Motions

Erika Chuang, Christoph Bregler (TR Stanford CSTR 2003-02)

Performance Driven Facial Animation using Blendshape Interpolation

Erika Chuang, Christoph Bregler (TR Stanford CSTR 2002-02)

PATENTS:

Issued Patents:

US Patent 5,880,788: Automated synchronization of video image sequences to new soundtracks

Christoph Bregler

Issued March-9, 1999

US Patent 6,188,776: Principle component analysis of images for the automatic location of control points

Michele Covell, Christoph Bregler

Issued Feb-13, 2001

US Patent 6,888,549: Method, apparatus and computer program for capturing motion of a cartoon and retargetting the motion to another object

Christoph Bregler, Lorie Loeb

Issued May-03, 2005

Pending Patents:

Visual Tracking Framework, Bregler, Bhat, Allen.

System, method and computer-accessible medium for providing body signature recognition

Bregler, Williams, McDowall, Rosenthal

System, method, software arrangement and computer-accessible medium for providing audio and/or visual information

Rosenthal, Bregler, Castiglia, DeVincenzo, DuBois, Feeley, Igoe, Meyer, Naimark, Postelnicu, Rabinovich, Salen, Sudol, Wright

TALKS / PANELS:

Not tracked, but have given department colloquiums at most major US universities and many international universities and companies.

OTHER MEDIA: (Not systematically tracked)

TEDxNYU, April 14, 2012: NYU in Motion & Squidball

New York Times, April 13, 2012, In 3D: How Mariano Rivera Dominates Hitters (interactive feature on nytimes.com for 3D glasses)

New York Times, April 8, 2012: The Maestro's Mojo

New York Times, April 6, 2012: Connecting Music and Gesture (interactive feature on nytimes.com)

PhysOrg feature, December 28 2011, "[Social robotics: Beyond the uncanny valley](#)"

Scienceline, January 3rd, 2010, "[Almost human – Navigating the uncanny valley](#)"

The Independent, October 4, 2011, "[How to dub a film](#)"

Scientific American, September 27, 2011, "[Something in the Way You Move: Cameras May Soon Recognize Criminals by Their Gait](#)" (Also at PBS News Hour)

New York Times, August 27, 2011, "[Animated or Real, Both Are Believable](#)"

NYU collaboration with **C-Mon and Kypski** on crowd-sourcing:

- [NYU Today](#) (May 17, 2011)
- [Futurity](#) (May 18, 2011)
- [Computer Vision Central](#) (May 18, 2011)
- [Presstext](#) (in German, May 18, 2011)
- [Gizmag](#) (May 19, 2011)
- [I Programmer](#) (May 21, 2011)
- [Ninja Marketing](#) (in Italian, May 25, 2011)
- [3voor12](#) (in Dutch, May 30, 2011)
- [Public Radio International: The World](#) (June 1, 2011)
 - also featured on [podcast](#) (June 17, 2011)
- [The Fox is Black](#) (June 2, 2011)
- [Radio Netherlands Worldwide](#) (June 8, 2011)
- [Nonblok.com](#) (in Indonesian, June 10, 2011)

Discovery/Science Channel, December 29, 2010, [NYU 3D](#) Innovation Nation by Miles O'Brien (a CBS / NSF produced short segment about the NYU Movement Lab)

DiscoveryNews (Discovery Channel online), October 6, 2010, "Athletes Use 3-D Imaging to Improve Their Game"

The New York Observer, October 4, 2010, "Computer Avatars Train Pro Athletes At NYU's Movement Lab"

New York Times, October 3, 2010, Page A1, "From the 'Avatar' Playbook, Pro Teams Adopt 3-D Imaging"

Crowd2cloud show at Ars Electronica Festival 2010, Linz, Austria:

ORF 2 TV, Interview, August 29, 2010

WIRED Blog, Squidball in "Hallucinatory Art Snags Attention ...", August 31, 2010

ORF FM4, September 4, 2010

Repair TV, September 5, 2010

Servus TV, September 11, 2010

New York Times Magazine, 4th of July, NYU Movement Lab created 3D reconstructions for Interactive Feature "Rivera's Cut Fastball" for "Mariano Rivera, King of the Closers" article.

NYU Today July 1, 2010, "NYU's Movement Lab Reconstructs Mariano Rivera's Pitching Motion for Animated 3D Look at His Delivery"

International Business Times, July 1, 2010, "3D Motion Capture Recreates Yankees Closer"

NYU Today, Vol 22, No 11, 2009 "Bregler Receives \$1.47 Million Grant to Enhance Motion Capture Tools"

CIMS Alumni, Fall 2009, "Chris Bregler: A Motion Capture Expert Who's Always on the Move"

Technology Review, interview (quoted) for APRIL 29, 2009, Second Skin Captures Motion

NYU Today, Vol 22, No 98, 2008 "Tina Fey Moves Like Sarah Palin, NYU Researchers Find"

CBSnews.com, UWIRE, Washington Square News, Nov 17, 2008, NYU Analysis Finds Fey's Palin Near Perfect

Kerrang Radio, UK, Interview on GreenDot Project, Nov 5, 2008

BoingBoing 10/27 2008, GreenDot Project, "Biometric Identification by body language"

Der Spiegel Online 10/29 2008 GreenDot Project

Interviewed (quoted) for **NewScientist** Nov 26, 2007, "Cheap sensors could capture your every move"

New York Academy of Science Magazine, Autumn 2007, "Winning Science".

NYU Alumni Magazine, Fall 2007, "Movers, shakers and ... software"

Business Week, April 2nd, 2007: Video Interview on businessweek.com, & NYU's Mocap Suit made the cover.

NYU Today "Courant Students Explore Body Movement with Laban Analysis", Oct 24, 2005

SIGGRAPH 2004 Interviews:

Animation Magazine, Sep 2004, "The Quest for the Best Eye Candy"

Animation Magazine, Sep 2004, "The Next MoCap Frontier: Animation With Soul"

Computer Graphics World, Aug 2004, Portfolio, SIGGRAPH Electronic Theater

Computer Graphics World, Sep 2004, Portfolio, SIGGRAPH Animation Theater

Variety, August 9-15, 2004, "Aping Mother Nature"

Hollywood Reporter, Aug 6-8, 2004, "Geek Week"

Millimeter Magazine, June 2004, "An Animation Celebration"

Video Systems, June 2004, "An Animation Celebration"

Millimeter Magazine, May 4, 2004, "SIGGRAPH Announces Best Animated Short & Jury Award"

VFX Pro, May 4, 2004, "SIGGRAPH Announces Best Animated Short & Jury Award"

Shoot, Aug 6, 2004, "Fine Art Collection"

CG Channel, 07/20/04, "SIGGRAPH Computer Animation Festival"

Animation Flash, June 26, 2004, SIGGRAPH Sets Computer Animation Festival Program

Sony Pictures Imageworks Moves forward with IMAGE MOTION (in **Channel 5 News**, **VFXWorld**)

NHK (Main Japanese TV). Sep-19, 2004 1h documentary "Digital Stadium: SIGGRAPH2004 Special"

G4Tech TV, Aug 11, 2004

New York Times, 10/09/03, "Decoding the Subtle Dance of Ordinary Movements"

New York 1 TV, 08/13/03, NYU Motion Capture Lab Coverage

SIAM News, Vol 36, 3, 04/03, "Step by Step" (Article about Kathy Pullen + some of our research)

Technology Review, 11/30/02, "Automating Animation" "

Computer Graphics World, 02/20, "Masterful Animation"

CG Focus, 12/03/01, "Cartoon Motion Capture"

Technology Review, 06/30/00, "Lying With Pixels"

NBC Nightly News, 09/14/97, Video Rewrite coverage

Los Angeles Times, 09/01/97, "Watch What They Say –Even If They Didn't"