CODEDBIAS



A SHALINI KANTAYYA FILM











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A FILM BY SHALINI KANTAYYA

"Thought-provoking. "Coded Bias" serves as both a wake-up call (to invasive practices the public doesn't yet realize are being implemented) and a call to action."



"Coded Bias takes you to the front lines of the digital revolution."



"The best of Sundance."
"Dismaying and engaging."

THE DENVER POST

LOGLINE
Coded Bias explores the fallout of MIT Media Lab researcher Joy Buolamwini's startling discovery that facial recognition does not see dark-skinned faces accurately, and her journey to push for the first-ever legislation in the U.S. to govern against bias in the algorithms that impact us all.
SYNOPSIS
Modern society sits at the intersection of two crucial questions: What does it mean when artificial intelligence (AI) increasingly governs our liberties? And what are the consequences for the people AI is biased against? When MIT Media Lab researcher Joy Buolamwini discovers that most facial-recognition software does not accurately identify darker-skinned faces and the faces of women, she delves into an investigation of widespread bias in algorithms. As it turns out, artificion intelligence is not neutral, and women are leading the charge to ensure our civil rights are protected.
codedbias.com
ISSUE
Coded Bias weaves a history of the small homogeneous group of men who defined artificial intelligence and forged the culture of Silicon Valley—a culture rapidly reshaping the world. A humans increasingly outsource decision-making to machines, algorithms already decide who get hired, who gets health care, and who gets undue police scrutiny. Automated decisionmaking has the unprecedented power to disseminate bias at scale. Coded Bias tells the unchartered story of rebel and misfits, women mathematicians and data scientists leading the fight for ethical use of the technologies of the future.
Coded Bias weaves personal stories, graphic elements, and lyricism to explore how bias gets encoded in the algorithms that decide the destinies of millions of people. As sci-fi writers have inspired the imagination of A.I. developers, Coded Bias draws from science-fiction stylistic elements to visualize concepts in this era of big data. Coded Bias aims inspire and engage audiences to reimagine technology and civil rights around the world





Joy Buolamwini is a poet of code who uses art and research to illuminate the social implications of artificial intelligence. She founded the Algorithmic Justice League to fight the coded gaze - harmful bias in artificial intelligence. A PhD candidate at the MIT Media Lab, she pioneered techniques that are now leading to increased transparency in the use of facial analysis technology globally. More than 230 articles in over 37 countries have been written about her Gender Shades thesis work that uncovered large accuracy disparities in commercial Al services.



Cathy O'Neil is an American mathematician and the author of the blog mathbabe.org. In 2016, her book Weapons of Math Destruction was published and long-listed for the National Book Award for Nonfiction. O'Neil attended UC Berkeley as an undergraduate, received a Ph.D. in mathematics from Harvard University in 1999, and afterward held positions in the mathematics departments of MIT and Barnard College, doing research in arithmetic algebraic geometry.



Virginia Eubanks is Associate Professor of Women's Studies and author of Automating Inequality. She joined the Department in 2004 after completing her Ph.D. in Science and Technology Studies at Rensselaer Polytechnic Institute. Eubanks teaches courses in public policy, research methodology, and feminist science and technology studies. She is currently engaged in a four-year National Science Foundation funded research project exploring the effects of welfare administration technologies on clients and frontline caseworkers in New York State.





Dr. Safiya Umoja Noble is an Associate Professor at UCLA in the Departments of Information Studies and African American Studies. She is the author of a best-selling book on racist and sexist algorithmic bias in commercial search engines, entitled Algorithms of Oppression: How Search Engines Reinforce Racism (NYU Press). She is quoted for her expertise on issues of algorithmic discrimination and technology bias by international press including The Guardian, the BBC, CNN International, USA Today, Wired, Time, and The New York Times.



Dr. Zeynep Tufekci is an Associate Professor at the UNC School of Information and Library Science (SILS) and a regular contributor to the New York Times op-ed section and Wired. She has an affiliate appointment with the UNC Department of Sociology and is a faculty associate at the Harvard Berkman Klein Center for Internet and Society. She is the author of Twitter and Teargas. Originally from Turkey, and formerly a computer programmer, she is also increasingly known for her work on "big data" and algorithmic decision-making.



Silkie Carlo, director of Big Brother Watch, is monitoring the trial use of facial recognition technology by the UK police. Prior to Big Brother Watch, she was the Senior Advocacy Officer at Liberty where she led a program on Technology and Human Rights and launched a legal challenge to the Investigatory Powers Act. She previously worked for Edward Snowden's official defense fund and whistleblowers at risk. She has worked to uphold rights in the fields of state surveillance, policing technologies, big data, artificial intelligence and free expression online. She is the coauthor of Information Security for Journalists.





Ravi Naik, the Law Society's 2018 Human Rights Lawyer of the Year, is a multi-award winning Partner, with a groundbreaking practice at the forefront of data rights and technology. These include the first case against Cambridge Analytica for political profiling, claims against Facebook for their data practices, challenges to financial blacklisting, through to numerous precedent setting judicial reviews. Ravi also regularly provides commentary in the media on a range of issues, including the Guardian, CNN, the Daily Mail, the BBC, WIRED, and the Telegraph.



Data journalist Meredith Broussard is an assistant professor at the Arthur L. Carter Journalism Institute of New York University and the author of "Artificial Unintelligence: How Computers Misunderstand the World." She is an affiliate faculty member at the Moore Sloan Data Science Environment at the NYU Center for Data Science, a 2019 Reynolds Journalism Institute Fellow. She has also worked as a software developer at AT&T Bell Labs and the MIT Media Lab.





Director/Producer Shalini Kantayya's feature documentary, Coded Bias, premiered at the 2020 Sundance Film Festival. She directed an episode of the National Geographic television series Breakthrough, Executive Produced by Ron Howard, broadcast globally in 2017. Her debut feature film Catching the Sun, premiered at the Los Angeles Film Festival and was named a New York Times Critics' Pick. Catching the Sun released globally on Netflix on Earth Day 2016 with Executive Producer Leonardo DiCaprio, and was nominated for the Environmental Media Association Award for Best Documentary.

Kantayya is a TED Fellow, a William J. Fulbright Scholar, and a finalist for the ABC Disney DGA Directing Program. Kantayya finished in the top 10 out of 12,000 filmmakers on Fox's On the Lot, a show by Steven Spielberg in search of Hollywood's next great director. She is an Associate of the UC Berkeley Graduate School of Journalism.

shalinikantayya.net

ABOUT THE PRODUCTION COMPANY

7th Empire Media is a production company with a mission to create a culture of human rights and a sustainable planet through imaginative media that makes impact.

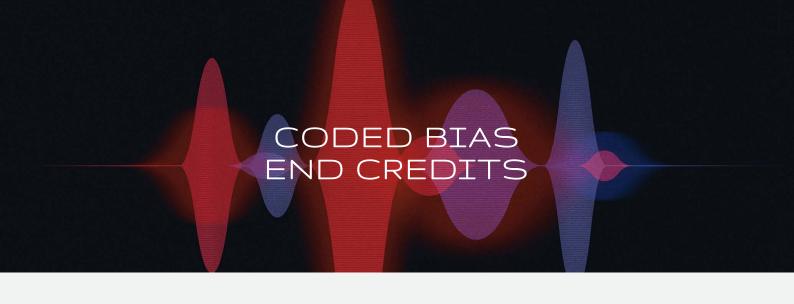


FILM CONTACT

Shalini Kantayya
Director, 7th Empire Media
shalini@7thempiremedia.com
+1.646.942.7444

FILM PUBLICITY

Adam J. Segal
The 2050 Group - Publicity
adam@the2050group.com
Office. 212.642.4317 | Cell. 202-422-4673



7th Empire Media presents

in association with JustFilms | Ford Foundation and Alfred P. Sloan Foundation Film Program a Shalini Kantayya film

CODED BLAS

Director Shalini Kantayya
Producer Shalini Kantayya p.g.a.
Co-Producer Sabine Hoffman
Director of Photography Steve Acevedo
Editors Alexandra Gilwit Zachary Ludescher Shalini Kantayya
Visual Effects Zachary Ludescher Alexandra Gilwit
Original Score Katya Mihailova

Post-Production Services Associate Producer Archival Research

Story Editors

Assistant Editor Additional Camera

Dakoit Pictures Kathryn Henderson Mattie Akers Sheila Maniar Christopher Seward Paul Rachman Kurt Engfehr Kathleen Caldwell Derek Janniere Derek Wiesehahn George Wieser Beau Grantland **Brad Sunness** Eric Phillips-Horst Wolfgang Daniels Gabriel Rubin Jen Atalla Bowie Alexander

Audio Post Facility
Supervising Sound Editor
Dialog Editor
Sound FX Editor
Re-Recording Mixer
Consulting Producer
Additional Visual Effects
Camera Assistant
Sound Recordist

Live Projection Team

Studio First Production Assistants

Production Assistants

Voiceover Talent Dolly Services Performance Artists Nicole Salazar Splash Studios, NYC

Peter Levin
Barbara Parks
Will Hsieh
Peter Levin
Karin Hayes
Gavin Guerra
Chantal Arslan
Jim Keaney
Mike Bono
Ted Passon

Jason Batcheller Seth Kirby Bill Moore

Bill Moore Zach Slocum

Ruby Bird Studios Brooklyn

Enosa Ogbeide Mayukha Karnam Esme Isabel Auster Abbie Jones Hornburg

Tate Hanyok Jimmy Day Janell Williams Stephanie Browne Rebecca Handler

Big Brother John Casey

Recording Musicians
Chris

GuitarChris PettiViolinAlex TyferEugene GrachViolaDaniel Lay

Maxim Levin

Cello

Double Bass Piano Music by Additional Mixing Sound Engineer Marta Bagratuni Kumhee Lee Len Slutski Katya Mihailova GIGI Services Chris Petti Mike MacAllister Creekside Studios

China Unit

Hangzhou Field Producer Camera Operator Sound Recordist Casey Homovich Yang Yang Jay Wu He Junyi

United Kingdom Unit

London Field Producer
Camera Operator
Camera Assistant
Sound Recordist
Runner/ Driver

Mike Beddoes James Heaphy William Hadley Maxmilian Skach Alex Purkiss Dana Myzer

South Africa Unit

Capetown Field Producer Sound Recordist Antoinette Engel Zahir Isaacs

Fiscal Sponsor
Bookkeeping
Accounting
Publicist
Speaking Agent
Impact Producer
Poster Design
Distribution Advisory Services
Clearance Counsel

Distribution Counsel

Women Make Movies Inga Eilenkrig Mainline Partners The 2050 Group Lavin Agency Locsi Ferra Pablo Londero Cinetic Media

Donaldson + Callif, LLP

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Anita Surendran, Esq.

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Joy Buolamwini
Cathy O'Neil
Meredith Broussard
Silkie Carlo
Icemae Downes
Virgina Eubanks
Griff Ferris
Manuel Victor Frederick
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Andrea Brown

Brown Girls Doc Mafia

Zeph Capo

Gabriel Florenz

Yale Fox

Kyra Gaunt

Georgetown Center

on Data and Privacy

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Megan Goulding

Julia Gunnison

Habitas

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Jordan Iturbido

Kathy Im

Tabitha Jackson

Grey Jabesi

Michael Jones

Van Jones

Hajnal Molnar-Szakacs

Paola Mottura

Stanley Nelson

Mutale Nkonde

Wandisile Naeketho

George Orwell Robert Lee Parr

Juan Pablo Dominguez

Lauren Pabst

Pioneer Works

Tom Reilly

Rane Rilev-walker

Eric Robinson

Cansu Safar

Hanna Sassaman

Eric Sears

Neelam Sharma

Sharda Shekaran

David Caroll

Seana Cavanaugh & Steve

Huntley Center for Data

and Society

Sonya Childress

Fitzroy Christian

Tanuj Chopra

Color of Change

Katrina Conan

Hannah Couchman

Brenda Coughlin

Diamond Crawford

Kade Crockford

Siyabulela Daweji

Paul-Olivier Dehaye

Stephanie Dinkins

Katie Evans

Rodney Evans

James Ferrar

Dawn Fraser

Firelight Media Lab

Samar Katnani

Alexandra Kahn

Jamie Kingston

Stephanie Lechicha

Mallika Kantayya

Mellini Kantayya Teru Lily Kantayya Burke

Sean Kantayya Burke

Mary Keil

Quan Lateef

Janna Levin

Loira Limbal

Kim Lund

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Lori McGlinchey

Yolanda Navarro Middle School

Aleyamma Matthew

Media Mobilizing Project

Cara Mertes

William Moore

Chelsea Shields

Cynthia e. Smith

Eric Shiner

Cyndi Stivers

Morgan Swan

Stella Tan-Torres

Rahdi Taylor

TED Fellows TED Residency

Gretchen & Joe Trasco

University of California,

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Kelly Vaughn

Angelica Vergel

Lily Whitsitt

Chi-hui Yang

Yarn Labs

Dustin Yellin

Debra Zimmerman

Lynne E. Zalesak

Archival Footage

CBS/Veritone
Courtesy of Dartmouth College Library
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Music

"On The Beautiful Blue Danube" "An der schönen blauen Donau", Op. 314

Written by Johann Strauss II Performed by English Session Orchestra

"Clair de Lune" Suite Bergamasque

Written by Claude Debussy Performed by Katya Mihailova

"Coded Bias" Theme Song

Vocals Naiika Alfred Mix and Mastering Chris Petti Lyrics by Joy Buolamwini, "Al, Ain't I a Woman"

This project was completed with the support of the Women Make Movies Production Assistance Program.

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