

Sameer S. Sahasrabudhe

VISUAL COMMUNICATION | 3D ANIMATION | INTERACTION DESIGN

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I am a researcher in the area of **learning design**, wherein I explore graphic design, animation, and similar visual art forms. I teach courses and workshops in these domains. I focus on **adopting the appropriate visual design strategies** to create usable eLearning content.

Education

Doctor of Philosophy (PhD)

2010-2015

YASHWANTRAO CHAVAN MAHARASHTRA OPEN UNIVERSITY

Subject communication

'Design considerations for creating eLearning animations', **Supervisors:** Prof. Sridhar Iyer and Prof. Sahana Murthy, IIT Bombay

PG Diploma in Distance Education (PGDDE)

2010

INDIRA GANDHI NATIONAL OPEN UNIVERSITY

Distance education

Media and Technology in Distance Education, Development and Revision of Self-Learning Materials, Open and Distance Education

PG Diploma in Animation film making

1995-1998

ZED INSTITUTE OF CREATIVE ARTS

Classical cell animation

Story boarding, Character design, Film appreciation, Music design, Animation principles, Animation production process

Bachelor of Fine Arts (BFA)

1987-1992

GOVERNMENT SCHOOL OF ARTS, AURANGABAD

Applied arts, Advertising, Art history

Graphic design, Advertising, Typography, Illustration, Visual communication

Academic experience

Instructor | Basic 3D animation using Blender

Massive Online Open Course

🕒 JUL-SEP 2015 🕒 FEB-MAR 2016A 🕒 JUN-OCT 2016B 🕒 JAN-JUN 2017

IITBombayX

Skill development MOOC on 3D animation was offered first between Jul-Sep 2015 and repeated in 'blended' format thrice, on www.iitbombayx.in. Interaction was offered to the participants through web chats, eMails, and phone calls. The completion rate is 21%, and the participants have found the course engaging and usable. It was observed, that, many new techniques (not covered in the course), were adapted by the participants while creating submissions for the course.

- 2015: **1400+** registrations, **600+** active participants and **126** qualified for the certificate. **86%** participants found the course engaging.
 - 2016a: **5000+** participants, **1500+** active and **1007** got the certificate. **96%** found the course helped them in learning 3D animation
 - 2016b: **3400+** participants, **2800+** active and **1007** got the certificate. **96%** found the course helped them in learning 3D animation
- Currently creating subsequent courses in the areas of gaming and engineering graphics.

Instructor | 3D architectural visualization

Massive Online Open Course

🕒 NOV 2016 - JAN 2017

IITBombayX

Specialization course on 3D architectural visualization, focused on developing skills of creating 3D models for architects.

- **1400+** registrations, **600+** active participants and **300+** qualified for the certificate. **86%** participants found the course engaging.
- Currently creating subsequent course on architectural walk-through creation.

Instructor | Human Computer Interaction

Value added Course (30 hours)

🕒 AUG-OCT 2016

SIMSR, Somaiya Vidyavihar, Mumbai

Course covering theory as well as practical sessions comprising of paper prototyping, User studies, Interviews, and UI design.

- 38 students from SEM III and SEM V of MCA.

Instructor

Short duration workshops

WORKSHOPS ON INSTRUCTIONAL DESIGN, 3D ANIMATION, AND AFFORDANCE

Since Aug. 2008

Designed and offered hands on workshops on various topics, since 2008.

- **Affordances for designing Serious games:** For the delegates of International Conference on Technology for Education, T4E 2014
- **Blender:** Modeling, Animation, Gaming, 3D visualization, and Mental rotation. (At various institutes across the country, since 2008)
- **Instructional design:** Focused for research scholars and teachers. 2010

Co-Instructor

Semester Course

COMMUNICATION SKILLS: CS792 (2014-16), ME792 (2016)

2014-present

Assisted Prof. Deepak Phatak, Prof. Kavi Arya (CSE, IITB) and Prof. Uday Gaitonde (ME, IITB) in the semester long courses.

- **Module of 6 lectures**, on Visual communication skills in this course. The lectures consist principles and best practices in visual design.

Co-Guide

M. Tech and B. Tech projects

WITH PROF. SRIDHAR IYER, IIT BOMBAY

Since 2009

One year projects, where students created tangible applications using Blender.

- The applications were tested and some of them were published at various international conferences.

Research and Administrative Experience

Senior Project Research Scientist

DEPT OF CSE, IIT BOMBAY

Mumbai, India

Since Dec 2015

IITBombayX: Offer the skill development course in blended mode, and research on the pedagogy adaptation required for the same. Provide visual design strategy for the MOOC platform.

Senior Faculty Associate

SCHOOL OF VOCATIONAL EDUCATION, TATA INSTITUTE OF SOCIAL SCIENCES

Mumbai, India

Sep 2014 - Nov 2015

Design, development and delivery of a skill based MOOC

- Designed and created the MOOC (SKANI101x: Basic 3D animation using Blender), by following standard MOOC creation methodology. Offered the MOOC, on IITBombayX platform
- Streamlined content design and dissemination process for other courses at the School of Vocational Education

Senior Project Manager

DEPT OF CSE, IIT BOMBAY

Mumbai, India

Aug 2002 - Aug 2014

- **Project OSCAR:** Visual design of the interactive learning objects, Design and setup of a lab for content creation
- **Ekalavya and eOutreach:** Setting up of video capturing and post production facilities, Training and mentoring the personnel to ensure content creation. Visual design of the content dissemination platform.
- **Developmental Informatics Lab:** Creating video documentation of new initiatives and visual design for the online content.

Head of the Digital department, Core team member

ZICA STUDIOS

Mumbai, India

Aug 1998 - Aug 2002

Feature film Animation, Special effects and creating post production work-flow

- Created animation for the feature film: 'Bhagmati'.
- Set up the post production work flow in the department, for animation feature length film. Supervised special effects.
- Training and mentoring of the post production team

Senior Creative Executive

MARKET MISSIONARIES (I) PVT LTD

Pune, India

Jan 1994 - Aug 1995

- Creating visual design layouts for advertisement media such as: banners, posters, press, leaflets etc.
- Assisting Art Directors for creating visual identity (Logos and Symbols)

Honors & Awards

HONORARY POSITIONS

2015-2017 **Member, Board of studies**, Department of IT, Mumbai University

Mumbai, India

2015-2017 **Member, Experts panel**, iPixio Animation College

Bengaluru, India

2015-2017 **Member, Board of studies**, Deviprasad Goenka College of Media

Mumbai, India

2015 **Member, Program committee**, Conferences: EpiSTEMe and ICACTA

Mumbai & Vizag

2010-2015 **Member, Program committee**, Technology for education conference (T4E)

2006-2010 **Member, Academic council**, Yashwantrao Chavan Maharashtra Open University (YCMOU)

Nashik, India

2008 **Member, Syllabus committee**, UG course in Animation, RTM Nagpur University

Nagpur, India

CERTIFICATIONS

2010 **Microsoft Research India**, Summer School on ICT for development

Bengaluru, India

2009 **IDC, IIT Bombay**, Short term course on Human Computer Interaction

Mumbai, India

2007 **Apple Asia**, Apple Distinguished Educator

Bangkok, Thailand

AWARDS

2009 **3 Certificates of Appreciation**, Direction of Documentary films, Government of India

New Delhi, India

2008 **Best Short Film**, UNICEF-LAADLI

Mumbai, India

2007 **Best Animation Film (Social Welfare)**, FICCI-BAF

Mumbai, India

INVITED TALKS

2016 **Panelist**, EdTech Review, Higher Education Technology Conference

New Delhi, India

2009 **Blender Institute**, World Blender conference

The Netherlands

2009-2010 **CDAC Mumbai & Hyderabad**, Use of animation in education

2008 **Panelist**, Animation for gaming, NASSCOM animation and gaming conference

Aurangabad, India

Publications

Journal

- Sahasrabudhe, S., Murthy, S., & Iyer, S. (2013) (In writing) Embedding visual communication principles in instructional design template using design based research method. For British Journal of Education Technology
- Sahasrabudhe, S., Murthy, S., & Iyer, S. (2013). Applying Design Based Research to create Instructional Design templates for Learning Objects. In New Frontiers in Education (Jan-Mar 2013) ISSN: 0047-970
- Sahasrabudhe, S., Murthy, S., & Iyer, S. (2012). Applying traditional animation principles for creating learning objects. In New Frontiers in Education (Jul-Sep 2012) ISSN: 0047-9705

Conference

- Majumdar R. and Sahasrabudhe, S. (2016). Content Creation and Pedagogic Strategies for Skill Development MOOC, International Conference on Computers in Education (ICCE) 2016, Mumbai, India. APSCE
- Majumdar R. and Sahasrabudhe, S. (2016). MOOC for skill development in 3D animation, In 16th International Conference on Advanced Learning Technologies (ICALT) 2016, Texas-Austin, USA, IEEE
- Sahasrabudhe, S., Bhawar, P., Ayer, N., (2014). Netra3D: Android application having affordances of tablet computers. In T4E 2014, Kollam, India. IEEE
- Majumdar, R., Bhawar, P., Sahasrabudhe, S., & Dinesan, P. (2014). HasTA: Hasta Training Application Learning Theory Based Design of Bharatanatyam Hand Gestures Tutor. In Advanced Learning Technologies (ICALT), 2014 IEEE 14th International Conference on (pp. 642-643). IEEE.
- Kadam, K., Sahasrabudhe, S., Iyer, S., & Kamat, V., (2013). Integration of Blender 3D in Basic Computer Graphics Course, 21st International Conference on Computers in Education 2013
- Bhawar, P., Ayer, N., & Sahasrabudhe, S., (2013). Methodology to create optimized 3D models using Blender for Android devices. Fifth International Conference on Technology for Education (T4E) 2013, Kharagpur, India: IEEE
- Sahasrabudhe, S., Shah, A., Thakkar, M., Thakkar, V., & Iyer, S. (2012). MathMazing: 3D gesture recognition exergame for arithmetic skills. In Proceedings of 20th International Conference on Computers in Education (ICCE) 2012 (pp. 11-17). Singapore: APSCE
- Kadam, K., Sahasrabudhe, S., & Iyer, S. (2012). Improvement of Mental Rotation Ability Using Blender 3-D. In Technology for Education (T4E), 2012 IEEE Fourth International Conference on (pp. 60-66). IEEE.
- Dere, S.; Sahasrabudhe, S.; Iyer, S.; Creating open source repository of 3D models of laboratory equipments using Blender, Technology for Education (T4E), 2010 International Conference on Technology for education, pp.149-156, 1-3 July 2010.
- Sahasrabudhe, S., & Iyer, S. (2009). Creating 3D animations of laboratory experiments using open source tools. In Proceedings of the International Conference on E Learning, Toronto, Canada.
- Kadam, K., Sahasrabudhe, S., (2009), APP2MID: Conversion of JAVA applets animation to JAVA midlets, International conference on emerging trends in engineering and technology, ICETET'09. Nagpur, India.
- Krithivasan S., Baru M., & Sahasrabudhe S., (2005), Achieving stability on VSAT networks, Case Study: Distance Education Program at IIT Bombay, at International Conference on Distance Education (ICDE), New Delhi, India, 2005.

Design and Film projects

Book Design

- **Computer Masti**, 8 book series, 2008-2012
A set of 8 books designed for teaching computers in schools. Decided overall aesthetics, visual treatment, and page design templates.
- **Punctuations**, Coffee table photo book, IIT Bombay, 2009
Editorial team member of the coffee table book with over 300 photographs to commemorate 50 years of IIT Bombay.
- **Kuhoo**, Multimedia novel, 2012
Art direction for the First multimedia novel in India having video of 210 minutes recorded script of the novel. Created Motion graphics for 22 songlets using images, videos, animation, special effects and calligraphy

Films

- **Direction: Documentary Films** (3)
 - Technology enabled Agri'Culture: Screened at ICT4D film festivals (New Delhi and Kuala Lumpur, 2009)
 - Sunlight at night, Certificate of appreciation, Govt of India, 2010
 - Fun with Science, Certificate of appreciation, Govt of India, 2010
- **Direction: Animation shorts** (2)
 - STOP Female Foeticide, (Winner at FICCI-BAF 2008 and UNICEF-Laadli 2009)
 - 1st Prize, Screened at MIFF 1998
- **Special Effects and Sound Design: Animation shorts** (3)
 - Ganapati Bappa Morya (Screened at MIFF 1998), Khayali Pulav, and Blue Moon