

Sameer S Sahasrabudhe

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Research interests:

 Visual communication,  Creation of usable learning objects,  3D interactive educational content

EDUCATION

PhD Subject communication, YCMOU, Nashik, **Submitted thesis in December 2013**

Title: Design considerations for creating eLearning visualizations

Supervisors: Prof. Sridhar Iyer and Prof. Sahana Murthy, IIT Bombay

PGDDE (Post graduate diploma in distance education), IGNOU, New Delhi (2009-2010)

PG Diploma in animation film making, ZICA, Mumbai (1995-1998)

Bachelor of Fine Arts, Government School of Arts, Aurangabad (1987-1991)

EXPERIENCE


Senior Project Manager, Dept of Computer Science and Engg., IIT Bombay, Mumbai Since 2002

 Educational content creation for Low Cost Access Device (LCAD): Aakash (2012 onwards)

2 publications; 3 android applications; Methodology to port 3D content on LCADs

 Repository of learning objects (LOs) for engineering and science concepts (2009-2013)

4 Publications; 4 ID Templates; 279 LOs; 6 Workshops

 Create educational content using open source 3D animation tool: Blender

3 Publications; 15 Tutorials, 9 Workshops; 8 BE Projects

Creation of audio-video educational content resource of IIT Bombay (2002-2009)

Design and implement methodology to capture live lectures in classrooms

~500 hours of video content; One Publication; 5 Documentary films; 5 Awards


Sequence Director, Head of post-production, ZICA Studios, Mumbai 1998-2002

 Core team member of India's first animation and live feature film: Bhagmati (126 mins)

Technical supervision of digital department for post-production and special effects

Faculty member for digital animation and special effects.

Senior Visualizer, Market Missionaries (I) Pvt Ltd, Pune 1993-1995

 Visualize and design press advertisement campaigns, and outdoor advertising


TEACHING

Instructor

 15 workshops on 3D animation using Blender, at various institutes (Since 2009)

2 courses on Digital animation and Special effects, ZICA Studios (1998-2002)

Co-instructor

 1 PG course on Communication skills with Prof. Kavi Arya, IIT Bombay (2013)

 6 workshops on Instructional Design with Prof. Sahana Murthy, IIT Bombay (2010-2012)


1 workshop on eLearning post-production with Prof. Deepak Phatak, IIT Bombay (2009)


Co-Guide (with Prof. Sridhar Iyer, IIT Bombay)


1 PG project and 9 UG projects

SELECT 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: 0047-9705

 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

- 🔗 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
- 🔗 Sahasrabudhe, S., Murthy, S. & Iyer, S. (2012). Embedding visual communication principles in Instructional Design phase of Learning Object creation process. In proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications (EdMedia) 2012 (pp. 1189-1198). Chesapeake, VA: AACE
- 🔗 Sahasrabudhe, S., & Iyer, S., (2009). Creating 3D animations of laboratory experiments using open source tools. In proceedings of the International Conference on E Learning (ICEL) 2009. (pp. 440-449). Toronto, Canada: ACL

HONOURS AND RECOGNITIONS**Awards**

Three certificates of appreciation, National Knowledge Corporation, Govt. of India, 2008
 Directed three documentary films created for R&D projects of IIT Bombay
 Best Animation Film (Social Welfare): UNICEF-LAADLI, 2008 and FICCI-BAF, 2007
 Directed animation short film on female foeticide issue
 Second prize in Cartooning, Youth Festival, Aurangabad, 1993
 Represented the college for the fine arts competitions at the youth festival

Positions held

Member, Academic Council: YC Maharashtra Open University, Nashik, 2006-2010
 Member, Syllabus committee: BA in Animation and Multimedia, RTM Nagpur University, 2008
 Jury member, ANIFEST, Mumbai 2012

Invited lectures (partial list)

Use of visualizations in eLearning, Refresher course, Mumbai University, 2012, 2014
 Application of Blender 3D for eLearning, Blender Conference, Netherlands, 2009
 Animation in eLearning, Digital Learning conference, New Delhi, 2008

Panel member (partial list)

NASSCOM Animation and Gaming Summit, Aurangabad, 2009
 Animation for eLearning , CDAC Mumbai and Hyderabad, 2009
 National Workshop on Technology Interventions in Higher Education, YCMOU Nashik, 2009

CERTIFICATIONS

Microsoft Research India Summer School 2010
 Human Computer Interaction course 2009, Industrial Design Center, IIT Bombay
 Apple Distinguished Educator India, 2007, Bangkok, Thailand

DESIGN PROJECTS

Book design 'Computer Masti' (8 book series), 2008-2012 (Teaching computers in schools)

Overall aesthetics, visual treatment and creating templates for the page layouts.

Editorial team member 'Punctuations', (Coffee table photo book, IIT Bombay), 2009

Photography and selection of visual theme for the book

Art direction 'Kuhoo', (Multimedia novel), 2012

First multimedia novel in India having 210 minutes video with recorded script of the novel

Motion graphics for 22 songlets using images, videos, animation, special effects and calligraphy

FILMS

Direction: 3 Documentaries: 'Technology enabled Agri'Culture', 'Sunlight at night' & 'Fun with Science'

Direction: 2 Animation shorts: 'STOP Female Foeticide' and '1st Prize'

Animation: 1 Animation short: '1st prize'

Special Effects & Sound Design: 2 Animation shorts: 'Ganapati Bappa Morya', 'Khayali Pulav'