

Sachin Datt, PhD

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EXPERIENCE

NMIMS School of Design / Assistant Professor

October 2017 - PRESENT, Mumbai

Primary role include teaching visual communication courses including Visual storytelling, drawing, animation and 3D modelling. Research and design of innovative pedagogy for collaborative project based learning. Designing assessment exercises for evaluating and grading skill level.

Homi Bhabha Centre for Science Education, TIFR / Visiting fellow

February 2016 -October 2017, Mumbai

Research on issues of creativity in Design and Technology education. Integrating storytelling in design and technology education.

Pratham Education / Science communication designer

April 2012 - February 2016, Mumbai, Delhi

Developing course content for teaching “History of science and technology” for school teachers. Designing educational comics and games on: History of Electricity, Airplanes, Astronomy, Microscope etc.

Ideignskills / freelance Infographics designer

2009 - 2010, Mumbai

Designing information graphics for Instructional design firm

IDC, IIT Bombay / Design Research Associate

2005 - 2006, Mumbai

Designed comic books for teaching science

Mindspring Digital Pvt. Ltd. / Animator

August 2002 - June 2003, Delhi

Creating digital animations for corporate e-learning modules

SKILLS/Teaching Interest

Curriculum Design for Design and Technology education

Collaborative project based learning pedagogy

Information Graphics

Animation

Drawing and sketching

Storyboarding

Building DIY models for tinkering labs (Gliders, vehicles , Bridges for understanding nature of creativity)

Game Design and research

EDUCATION

Doctor of Philosophy / IDC, IIT Bombay

2006 - 2012

Developed a narrative based approach for designing secondary school science content

Master of Design / IDC, IIT Bombay

2003 - 2005

Project 1: Short Animation film

Project 2: Comic book for teaching chemistry

Bachelor of Fine Arts / College of art Delhi

1998-2002

Major Project: Advertising campaign for Norton antivirus

PUBLICATIONS

Book

History of Electricity book series in 3 volumes. Translated in Hindi, Marathi and Kannada. Published by Pratham Education Foundation with funding from CA Technologies, USA. 2017.

Book chapter (in print)

Datt, S (2018): Using narratives for teaching nature of technology. Explorations in Technology Education Research. Edited by John Williams and David Barlax. Springer publication.

Journals — *Published*

Datt, S. & Sugra, C. (2018): A Comparison of Innovations by Adults and Children at the Grassroots Level in India. Design and Technology Education An International Journal. PKP public knowledge project. Vol 23 No. 1. Pp. 10-25

Datt, S. (2015): Case for Building Informal Ontology of a Subject Matter at School level Science Education with Community Collaboration. Journal of School Education Technology, I manager Publication. Vol. 11. No.1, p. 34.

Datt S & Poovaiah R. (2012): Designing Epistemologically Correct Science Narratives. journal of School Education Technology, I manager Publication, 2013. Vol. 7, No. 4, p.16.

Conference Proceedings

Datt, S., & Chunawala, S. (2018). Children as Filmmakers. *Episteme* 7:International Conference to review Research on Science Technology and Mathematics Education. (pp. 17)

Datt, S., Shah, M., & Chunawala, S. (2017). Upper primary and secondary school science teacher's perception of creativity in science education. In A. Sharma and J. Rajeswaran (Eds.), *Creativity and cognition in art and design: Proceedings of the 1st International Conference on Creativity and Cognition in Art and Design. ICCCAD 2017.*(pp. 278-286). New Delhi: Bloomsbury.

Datt, S. (2017). Paradox of novelty and usefulness. In A. Sharma and J. Rajeswaran (Eds.), *Creativity and cognition in art and design: Proceedings of the 1st International Conference on Creativity and Cognition in Art and Design. ICCCAD 2017.* (pp. 188-198). New Delhi: Bloomsbury.

Datt, S & Poovaiah, R. (2013). Effect of Historical Narrative Based Approach in Designing Secondary School Science Content on Students' Memory Recall Performance. *ICORD 2013, Chennai.* Springer Publication, 2013.

Published Articles

Datt, S. (2015), Suggestions for Improvement of Activity Based Science Learning Approach in Upper Primary Science Textbooks and its Application in Himachal Pradesh DIET training. *Design for all: Design and Children.* IIT Bombay, 2015

Datt, S & Poovaiah R. (2009), Story Based Schema Building Approach in Science Learning. *Designing for children conference proceedings.* Industrial Design Centre, IIT Bombay 2009.

Datt, S & Poovaiah R. (2009): Fractal like model for designing educational stories. *Design Thoughts.* Industrial Design Centre, IIT Bombay.

Conference presentations

Datt, S & Rao, A.G. (2008). Story of bamboo crafts guru Medar Ketya, paper presented at Indian Folklore Congress, Shantiniketan, West Bengal, 2008.

Datt, S. & Poovaiah, R. (2011). Framework for organizing knowledge as a narrative: A case for secondary school science learning, paper presented at Teaching Narrative and Teaching through Narrative International conference, Tampere, Finland.

DIY workshops

Stop Motion animation film Making workshop. HBCSE, Mumbai, May 2017.

Training for DIET upper Primary science teachers in scientific Method. Himachal Pradesh. 2014.

Glider Making workshop with Sri Lankan school teachers at HBCSE. Mumbai, July 26, 2016.

Glider Making Workshop with Kendriya Vidyalaya teachers. 24 Nov. 2016.

School Science Research and Development (SSRD) summer camp with school children. Storytelling and Flipbook making.

Science Fairs conducted at various schools in Delhi, 2015.

Glider making, LEGO construction and microscope making workshops with class 7 to 9 students. HBCSE, 2016.
