

Curriculum Vitae

Dr. S. UDAYAKUMAR

Mob.No. +91 9834746681, 9003499505

Email: archaeology1987@gmail.com

Current Position

Post-Doctoral Associate
Heritage Science and Society program
School of Humanities
National Institute of Advanced Studies
Bangalore, India

Personal Details

Date of Birth: 01 March 1987
Nationality: Indian
Marital Status: Single
Sex: Male

Educational Qualification

2012-2016: Completed PhD in Archaeology from Deccan College Post Graduate & Research Institute, Pune.

2009- 2011: Post Graduation Master of Arts (M.A Ancient Indian History, Culture and Archaeology) Deccan College, Post Graduate & Research Institute, Pune (First Class. 63.18 %).

2005 - 2009: Bachelor of Fine Arts (B.F.A) Bronze Sculpture (Main), From University of Madras, Tamil Nadu, India (First Class. 64 %).

2003 – 2005: Board of Higher Secondary Examination Government of Tamil Nadu, India (First Class. 66.50 %).

2003: Board of Secondary Education, Government of Tamil Nadu, India (First Class. 60.40 %).

Field Experience

2010: One-month excavation at Proto-historic Harappa culture site of Farmana in Haryana, India. Directed by: Prof. Vasant Shinde, Deccan College Post Graduate & Research Institute, Pune. Exploration of the Harappan sites in Haryana such as Rakhigarhi and Gerawal.

2011: 10 days' trip to Madhya Pradesh (Khajuraho group of Temples, Bhopal, Vidisha&Sanchi) for Art & Architecture and Museology field trip headed by 3 lecturers from Deccan College Post Graduate & Research Institute, Pune.

2012: A whole scene excavation at Proto- historic Harappa culture site of Kotada-Bhabli in Gujarat, India

Directed by: Dr. Prabodh Shirvalkar, Deccan College Post Graduate & Research Institute, Pune.

Duties: site and trench supervise.

Responsibilities: Supervising the site.

Complete Season on the site.

2013: Participated in the Excavation at Kotada Bhadli (a single cultural Late Mature Harappan Site) District Kuchchh, Gujarat, India, under the supervision of Dr. Prabodh Shirvalkar, from Deccan College and Postgraduate and Research Institute.

Duties: site and trench supervising.

Responsibilities: Supervising the site.

Complete Season on the site.

2013: Participated in the exploration and test pit at Teri (Microlithic site) District Thoothukudi, Tamil Nadu, India, under the director of Dr. Kumar Akhilesh and Prof. Shanti Pappu from Sharma Centre for heritage education, Chennai.

2017: Participated in the Excavation at Keeladi, Sivagange district, Tamil Nadu, under the supervision of Mr. S.P. Sriram, from Archaeological Survey of India, Bangalore Excavation Branch.

Responsibilities: Supervising the site.

Publications

2014: “Traditional Wisdom and Current Practices of Bronze Technology in Tamil Nadu; With Special Reference to Tanjore”. In Heritage Journal of Multidisciplinary Studies in Archaeology Vol: 2, Pp: 772-782, Department of Archaeology, University of Kerala.

2016: “Investigating Causes of Technological Difference and Similarity between Chola Bronze Casting and Dhokra Casting”. In Bulletin of Deccan College Post Graduate and Research Institute Vol: 74, Pp: 139-145.

2016: “An overview of experimental work on Ancient Iron Technology”. In Heritage Journal of Multidisciplinary Studies in Archaeology Vol: 4, Pp: 472-481, Department of Archaeology, University of Kerala.

2017: “Ancient Iron smelting in Iswal, South-East Rajasthan”. In *the Crucible*. Archaeometallurgical News. Historical Metallurgy Society News: Issue 96, winter 2017, Brunel University, U.K.

2018: “Ancient Iron Smelting in Nathara-Ki-Pal, Southeast Rajasthan”. In History Today, Journal of History and Historical Archaeology: No. 19, New Delhi.

2018: “A Unique Bimetallic Antiquity from the Early Historical Site of Iswal, Rajasthan”. In Pakistan Heritage: Vol. 10, 91-97, Department of Archaeology, Hazara University Mansehra, Pakistan.

2019: “A Study of Art and Architecture of Avudayar Kovil Temple of Pudukkottai District, Tamil Nadu”. In Art Style/Art & Culture International Magazine, Issue: 1, March 2019, New York, Pp: 101-116.

2019: “Traditional Grains Storage Practices of Chettiar Community in Tamil Nadu with Special Reference to Sivagange District”. In Journal of the Centre for Heritage Studies: Vol. 1; University of Kelaniya, Sri Lanka, pp. 305-311.

2019: “Traditional Techniques of Gold Jewellery: A Case Study of Devakottai”. In Journal of the Centre for Heritage Studies: Vol. 1; University of Kelaniya, Sri Lanka, pp. 323-329.

2020: “The Traditional Craft of Leather Bellows-making: techno-ethnoarchaeological Perspectives from Sholapur, India”. In *the Crucible*. Archaeometallurgical News. Historical Metallurgy Society News: Issue 103, Spring 2020, Brunel University, U.K.

Research Experience

2008-2009 Dissertation on “Sri Chakra” a thesis submitted to the University of Madras, for the degree of Bachelor of fine arts. Under the guidance of Dr. K. Rajendran, Department of Metal sculpture, Govt. College of architecture and sculpture, Mamallapuram.

2011 Dissertation on “THE ART AND SCIENCE OF BRONZE TECHNOLOGY IN TAMIL NADU”: Traditional wisdom and current perspectives a thesis submitted to Deccan College Post Graduate and Research Institute, Pune. Under the guidance of Dr. Vijay Sathe and Dr Prabodh Shirvalkar, Deccan College Post Graduate and Research Institute, Pune.

Conferences Attended

2010 Attended a National conference on Recent Advances in Indian Archaeology during 3rd and 4th December 2010, organized by the Department of Archaeology and Ancient History, Faculty of Arts, The Maharaja Sayajirao university of Baroda under the UGC-DRS-SAP-II.

2011 Attended UKIERI Dissemination seminar “Pioneering Ferrous Metallurgy” 16th-18th November 2011 organized by National Institute of Advance studies, Bangalore and Exeter University, Exeter, UK.

2012 Attended ICHR Sponsored International Seminar on Harappan sites In Western India (Gujarat) 22nd -24th March, 2012 organized by the Department of Archaeology, Deccan College Post Graduate & Research Institute, Pune.

2013 Participated in the Seminar “New Perspectives on the Indian Acheulian: A seminar to honor Dr. R.S. Pappu in his 80th year “held on November 22, 2013, at Department of Archaeology, Deccan College Post Graduate & Research Institute, Pune.

2014 Participated in the Seminar & Demonstrations on Art Education 21- 24 January 2014, held at Lalit Kala Akademi (National Academy of Art) Ministry of Culture, Government of India, New Delhi.

2015 Participated in one-day seminar “New Perspectives on Pre- and Protohistory in India” to Honour Prof. V.N. Mirsa on his 80th Birthday held at Department of Archaeology, Deccan College, Pune, on August 18.

2018 Participated in two-day International- seminar “**ALTRUISM, WELLBEING AND PURPOSE VANTAGE VIEWS ON PLANETARY LIFE AND ITS MEANING FROM BIOLOGY, INDIAN PHILOSOPHY AND THE ARTS** held at National Institute of Advances Studies, Bangalore on 1-2 February.

2018 Participated in Dialogues at the Science-Society interface: some contemporary issues and themes A Conference in memory of Prof. C V Seshadri, IIT Madras Research Park, Taramani, Chennai – 600113, 8th -10th Feb.

2018 Participated in National Conference on Science in performing arts 12th 13th January “**Nataraja, a Confluence of Arts and Science: Emerging Perspectives with Insights**”, IUCAA, Pune.

Paper Presented

2011 Presented a paper entitled **Art and wisdom of bronze casting in Tamil Nadu** in the Joint annual conference of IAS-ISPQS-IHCS and National seminar on the Megalithic culture of India, organized by the Department of Archaeology, university of Kerala and ASI from 11th -13th Nov 2011.

2012 Presented a paper entitled **Typological study of iron object from Iswal (Early Historical Phrase), Rajasthan** in the Regional Workshop on Archaeology of Western India, organized by the Archaeological survey of India, Mumbai Circle and

Deccan College Post-Graduate and Research Institute, Deemed University from 5th-6th November 2012, Pune.

2013 Presented a Paper entitled **Labour in the context of Bronze image production in Tamil Nadu** in the workshop on understanding Labour: Region, caste and Gender through Tamil History and Literature, organized by Department of Indology, French Institute of Pondicherry and Tamil Nadu – Puducherry Progressive Writers Artists Association from 21st to 23rd August, 2013.

2013 Presented a paper entitled **Investigating causes for the small size of Bronze images in the Harappan Civilization: A Technological Perspective**. In the Joint annual conference of IAS-ISPQS-IHCS and International seminar on the Recent Advance on Archaeological Science and Indian Archaeology, In Centre of Advance study Department of AIHC & Archaeology, BHU Collaboration with ASI and Bharat Kala Bhawan from 14th – 16th December, 2013.

2013 Presented a paper entitled **Iron objects from Iswal (Early Historical Phrase), Rajasthan**. In the Joint annual conference of IAS-ISPQS-IHCS and International seminar on the Recent Advance on Archaeological Science and Indian Archaeology, In Centre of Advance study Department of AIHC & Archaeology, BHU Collaboration with ASI and Bharat Kala Bhawan from 14th – 16th December, 2013.

2014 Presented a paper entitled **Evidence of Iron Smelting from Iswal, Southeast Rajasthan: An Archaeological and Ethnographic Study**. In the Joint annual conference of IAS-ISPQS-IHCS and International seminar on Archaeology and Language, In Deccan College Post- Graduate and Research Institute (Deemed to be University) Pune. 6th -9th October 2014.

2015 Presented a paper entitled **Experimental studies in Iron Smelting**. In the Joint annual conference of IAS-IPQS-IHCS and International seminar on culture and cognition in reconstruction the past, In Department of History, University of Hyderabad. 17th -20th December.

2016 Presented a paper entitled **Investigating and tracing the continuity and change in the Lost-Wax technique of Bronze Casting; archaeological and anthropological perspectives**. In the International Conference on Ancient Science & Technology: Retrospection & Aspiration (ASTRA- 2016), In Deccan College Post Graduate & Research Institute, Pun 09th -11th January.

2016 Presented a paper entitled **Experimental smelting of iron ores from Nathara-Ki-Pal, Udaipur: Results for the reconstruction of ancient metallurgical processes**. In the national Conference on Emergence of Language, Culture and Technologies, In SahityaSanstan, JanardhanRai Nagar Rajasthan Vidhyapeeth, Udaipur (Platinum Jubilee Seminar 1941-2016) 07th -7th November.

2017 Presented a paper entitled **An Experimental Study of Iron Smelting Techniques Used in the South East Rajasthan; with special reference to Nathara-Ki-Pal, Udaipur.** In the International Seminar on Field Archaeology, In University of Kerala 16th-19th January.

2017 Presented a paper entitled **Experimental Approaches in the Study of the Formation of Iron Smelting Furnaces.** In the Joint annual conference of IAS-ISPQS-IHCS and International seminar on the Recent Field Researches and Scientific Studies in Indian Archaeology, In Centre of Advance study Department of AIHC & Archaeology, BHU Collaboration from 4th – 6th December, 2017.

2018 Presented a paper entitled **Traditional Techniques of Gold Jewellery: A Case Study of Devakottai, Tamil Nadu.** In the 6th International Congress Society of South Asian Archaeology, In Indian Museum, Kolkata from 16th -18th March, 2018.

2018 Presented a paper entitled **Investigating Causes for the Small Size of Bronze Images in the Harappan Civilization: A Technological perspective.** In the International Conference in the Growth and Development of Indian Culture: Historical and Literary Perspectives (Prehistoric Period – 12th Century CE) In the Dr. S.R.Rao memorial Foundation for Indian Archaeology, Art and Culture, Bangalore from 29th June – 1st July 2018.

2018 Presented a paper entitled **An Archaeo-Experimental Approach to Understanding the Indian Metal Heritage of Small-size Bronze Image of Harappan culture.** In INAE- Engineering heritage-meeting Study Group Annual Meeting & Workshop on Digital Museum of metallic Objects, Deccan College, Pune from 20th July – 21st July 2018.

2018 Presented a paper entitled **A Comparative Study of Lost-Wax technique of South Indian Bronze Casting and Manipur Brass Casting.** In the Conference on Relevance of Archaeology for 21st century India, Bangalore from 24th July – 25th July 2018. National Institute of Advanced Studies, Bangalore.

2018 Presented a paper entitled **A Comparative approach to understanding the current techniques of iron workers of South and West India; A Case Study of Karnataka and Gujarat.** In the International Conference on Heritage of South & South East Asia: Issues on Musealization from 15-16 November 2018. Department of Museology, University of Calcutta, Kolkata.

2019 Presented a paper entitled **A Comparative Analyses of Dhokra Casting and Chola Bronze Casting: A Technological Approach.** In the National Seminar on Technology and Society in Central India, 1st-2nd March, 2019. Organized by Department of History, Indira Gandhi National Tribal University, Amarkantak, MP.

Given Lecture

2011 Delivered lecture on “*Art and wisdom of bronze casting in Tamil Nadu*” in Sharma center for Heritage education, Chennai, Tamil Nadu.

2012 Given an onsite lecture on *Technology of Bronze casting* to the Students from Tilak Maharashtra Vidyapit at the site of Kotada Bhadli, Gujarat, India.

2013 Delivered lecture on “**knowledge of traditional bronze image making**” in Ellen Sharma Matriculation Higher Secondary school & Sharma center for Heritage education, Chennai, Tamil Nadu.

2018 Delivered Lecture on “**Archaeology**” in Mary Ann Matriculation Higher Secondary School, Madurai, Tamil Nadu, February 14th

2018 Delivered Lecture on “**Lost-wax method (South Indian Bronze)**” in Mary Ann Matriculation Higher Secondary School, Madurai, Tamil Nadu, February 15th.

2018 Delivered Lecture on “**Lost-wax method (South Indian Bronze)**” in Christ University (Deemed to be University), Bangalore, 23rd May.

2018 Delivered Lecture on “**Archaeo-Experimental Approach to understanding iron smelting processes: A Case Study of Naratha-Ki-Pal, South East Rajasthan**”. In NIAS Wednesday lecture, 16th July 2018.

2019 Delivered Lecture on “**Investigating Ancient Indian heritage of iron Smelting Technology: An Experimental Approach** in the workshop on “Archaeological Resources in the Reconstruction of Ancient History of Tamil Nadu and the Application of Recent Technological Studies, conducted from 24.06.2019-04.07.2019, organized by the school of History and Tourism Studies, Tamil Nadu Open University, Saidapet, Chennai., 27th June.

2019 Delivered Lecture on “**To trace, Observe and Understand the ancient metal technology in India**”. In NIAS Wednesday lecture, 11th September 2019.

2020 Delivered lecture on “**Craft of Pottery/ Wood Carving/ Weaving/ Metal Heritage**” (Undertaking India) in Vivekananda Institute of Indian Studies. 23/09/2020.

Scholarships and Research Awards

2012 Received **Nehru Trust Small Study Research Grant** on the proposed research entitled, “**Traditional wisdom and current Perspective of Bronze Technology in Tamil Nadu; with Special reference to Tanjore dist.**”New Delhi

2014 Received Junior Research Fellowship **ICHR**, New Delhi

2015 Received **The Tylecote Memorial Fund**, Historical Metallurgical Society, U.K

2016 Received **Nehru Trust Small Study Research Grant** on the proposed research entitled, “**Investigating the technological difference between the Chola bronze Casting and Dokra Bronze Casting through Experimental study**” New Delhi

2017 Received **Akshara Foundation Grant for the Study of Ancient and Medieval Temple Architecture** on the proposed research entitled “**Study of Art and Architecture of Avudyarkovil Temple at Pudukkottai district, Tamil Nadu**” Ahmadabad.

2017 Received **INTACH Research Scholarship Award 2016-17** on the proposed research entitled “**Experimental Study of Iron- Smelting Techniques Used in South East Rajasthan**” New Delhi.

2017 Received **ICHR Research Scholarship Project Award 2017-19** on the proposed research entitled “**Understanding the ancient air bellows through ethno-techno-archaeological lens: with special reference to Maharashtra, India**” New Delhi.

2019 Received **The Tylecote Memorial Fund**, Historical Metallurgical Society, U.K for research ‘**Understanding the ancient leather air bellows through ethno-techno-archaeological lens; with special reference to Sholapur, India.**

Work Experience

2010 Seven months’ work experience as a Project coordinator with an N.G.O, Sharma Centre for Heritage Education Chennai, Tamil Nadu from May 2010 to November 2010.

2013 One-year work experience as a Research Assistant with an N.G.O, Sharma Centre for Heritage Education Chennai/ Pune.

2017 Educational projects Coordinator with an N.G.O, Sharma Centre for Heritage Education Chennai/ Pune.

Workshops

2009 Participated Bronze sculpture making competition by Tamil Nadu tourism, Mamallapuram.

2010 Organized a One Day Workshop on Pottery Making at Deccan College Postgraduate and Research Institute, Pune.

2012 Participated in the workshop on Water Management, past and Future- an Archaeological Perspective organized by Society of South Asian Archaeology (SOSAA), 13th October. In the Department of Archaeology, Deccan College Post-Graduate and Research Institute, Pune.

2013 Participated in the workshop on The Robert Bruce Foote memorial workshop on Prehistory & Lithic Technology from 30th May to 3rd June organized Celebrating the 150th Anniversary of Indian Prehistory in Sharma Centre for Heritage Education, Chennai.

2013 Was a resource person in the workshop on The Robert Bruce Foote memorial workshop on **Lost- wax** method technology from 5th to 6th September organized celebration the 150th Anniversary of Indian Prehistory in Sharma Centre for Heritage Education, Chennai.

2013 Organized a workshop on The Robert Bruce Foote memorial workshop on Paleontology & Prehistory from 25th and 26th October organized Celebrating the 150th Anniversary of Indian Prehistory in Sharma Centre for Heritage Education, Chennai.

2013 Organized and Participated a workshop on Foote- Prints Robert Bruce Foote and India's Stone Age Legacy from 28th and 29th December organized Celebrating the completion of 150 years of the Indian Prehistory in IGRMS, Bhopal in collaboration with Sharma Centre for Heritage Education, Chennai.

2014 Contacted a Demo Cum workshop on Lost- Wax Method from 21- 24 January organized seminar & Demonstrations on Art Education at Lalit Kala Akademi (National Academy of Art) Ministry of Culture, Government of India.

2014 Was a resource person a workshop on The Robert Bruce Foote memorial workshop on Prehistory, Rock art and Stone Napping from 3rd and 4th January organized celebrating the 150th Anniversary of Indian Prehistory in Sharma Centre for Heritage Education, Chennai.

2014 Was a resource person in Archaeology workshop on Experimental lithic Knapping & Microware studies. Jointly organized by Department of History and Archaeology, Nagaland University and ICHR.

2014 Was a resource person in Lost-wax method technology on 12th July in Sharma Centre for Heritage Education.

2014 Was a resource person in Lost-wax method technology on 18th July in Sharma Centre for Heritage Education.

2014 Participated in the workshop on “Ceramic Production” Jointly organized by Department of Archaeology, Deccan College Pune and Potters in Peril Trust Mumbai from 7th to 9th August.

2014 Was a resource person in Lost-wax method technology on 27th September in Sharma Centre for Heritage Education.

2014 Participated as a Resource Person in Paleoanthropological Perspectives on Plants Communities in South Asia INQUA- HaBocm workshop cum training Programme 27th October to 2nd November at Sharma Centre For Heritage Education and French Institute of Pondicherry.

2014 Participated in the workshop on “Archaeometallurgy and Archaeology” organized by Indian Institute of Technology, Gandhinagar from 8th and 9th December.

2015 Was a resource person in Lost-wax method technology on 16th February in Sharma Centre for Heritage Education.

2015 Was a resource person in Lost-wax method technology on 26th March in Sharma Centre for Heritage Education.

2015 Was a resource person in Lost-wax method technology on 3th July in Sharma Centre for Heritage Education.

2015 Was a resource person in Lost-wax method technology on 12th July in Sharma Centre for Heritage Education.

2015 Was a resource person in Lost-wax method technology on 18th July in Sharma Centre for Heritage Education.

2015 Was a resource person in organizing a Children’s Workshop: The Lost-wax method technology 22nd September in Sharma Centre for Heritage Education.

2015 Was a resource person in organizing a Children’s Workshop: Paleontology & Prehistory 25th & 26th October in Sharma Centre for Heritage Education.

2015 Organized and Participated the Workshop on Research Methodology for Heritage Education 3rd- 9th October.

2015 Participated in Workshop on Lithic studies organized by Sharma Centre For Heritage Education 3rd- 9th October.

2016 Participated as a Resource Person in Paleoanthropological Perspectives on Plants Communities in South Asia “*Prehistory, Plants and People*” INQUA- HaBocm workshop cum training Programme 18th January to 24th at Sharma Centre For Heritage Education and French Institute of Pondicherry.

2016 Was a resource person in organizing a “Playtime at National Museum” 18th& 19th June in National Museum, New Delhi.

2017 Was a resource person in organizing a Children’s Workshop: The Lost-wax method technology 22nd September in Sharma Centre for Heritage Education.

2018 Was a resource person in organizing a “Playtime at National Museum” 1st to 3rd June in National Museum, New Delhi.

2019 Organized two day workshop and exhibition on “*Karu*” the womb: Art and Science of Image Casting, 5th and 6th September, National Institute of Advanced Studies (NIAS), Bangalore.

2020 Organized and Resource person two day workshop in “The metal Casting Tradition of India and Korea, 2020 national Science Museum of Korea and Government College of Architecture and Sculpture 21st and 22nd January 2020, Government College of Architecture and Sculpture, Mamallapuram.

Membership

Life Membership in ISPQS, C/O Deccan College Post-Graduate & Research Institute, Pune.