

Semiconductor: Ruth Jarman (1973) and Joe Gerhardt (1972)

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Selected Solo Exhibitions

2021 *Spectral Constellations*, Mills Observatory, Dundee, Scotland
2021 *Semiconductor*, Tolbooth Gallery, Stirling, Scotland
2021 *HALO*, presented by John Hansard Gallery at MAST Mayflower Studios, Southampton, UK [*HALO*]
2020 *Earthworks*, Fabrica, Brighton, UK
2019 *Semiconductor*, The 14th Media Art Biennale Santiago, National Center of Contemporary Arts, (CNAC), Santiago, Chile.
2019 *The Technological Sublime*, City Gallery, Wellington, New Zealand
2018 *HALO*, The 4th Audemars Piguet Commission at Art Basel
2018 *The View from Nowhere*, Le Lieu Unique, Nantes, France
2017 *Parting the Waves*, Axiom Art and Science Gallery, Tokyo, Japan
2017 *Where Shapes Come From*, Phoenix, Leicester, UK
2016 *Earthworks*, Sonar Planta, Sonar Festival, Barcelona
2014 *Cosmos*, Jerwood Open Forest, Alice Holt Forest, UK
2013 *Let There Be Light*, House of Electronic Arts, Basel, Switzerland
2011 *Worlds in the Making*, FACT, Liverpool, UK
2011 *Semiconductor*, Nuit Blanche, Paris, France
2010 *Semiconductor*, Institute of Modern Art, Brisbane, Australia
2010 *Heliocentric*, Northern Gallery for Contemporary Art, Sunderland, UK
2008 *Magnetic Movie*, Hirshhorn Museum, Smithsonian Institute, Washington, USA

Selected Group Exhibitions

2021 *Au-delà du réel?*, Nemo Festival, 104-Paris, France
2021 *To the Edge of Time*, University Library KU Leuven, Belgium
2021 *Temporal Stack, The Deep Sensor*, Research Centre of Contemporary Visual Art, Guizhou Normal University, Guizhou, China
2020 *Broken Symmetries*, Kumu Art Museum Tallinn, Estonia
2020 *Invisible*, Science Gallery Dublin, Ireland
2020 *Quantica*, NTMoFA (National Taiwan Museum of Fine Arts), Taichung, Taiwan
2020 *Quantica*, iMAL, Brussels, Belgium
2019 *Desire Lines*, University of Brighton Edward St Campus, Brighton Digital Festival, UK
2019 *DARK MATTER: 95% of the Universe is Missing*, Science Gallery, London, UK
2019 *Ecovisionaries*, LABoral, Gijon, Spain
2019 *D'un soleil à l'autre*, Base Sous-Marine, Bordeaux, France
2019 *Quantica*, CCCB, Barcelona
2018 *SUPERPOSITION: Equilibrium and Engagement*, 21st Biennale of Sydney
2018 *Broken Symmetries*, FACT, Liverpool, UK
2018 *Nature as Data*, Jing-an International Sculpture Park, Shanghai, China
2018 *Groundwork*, CAST, Cornwall, UK
2017 *Infosphere*, Centro Nacional de las Artes (CENART), Mexico City, Mexico
2017 *The Universe and Art*, ArtScience Museum, Singapore
2017 *No Such Thing as Gravity*, National Taiwan Museum of Fine Arts, Taiwan
2016 *Nonspaces*, Akbank Sanat, Istanbul, Turkey
2016 *The Universe and Art*, Mori Art Museum, Tokyo, Japan
2016 *Seeing Round Corners*, Turner Contemporary, Margate, UK
2016 *The Thinking Machine, Ramon Llull and the Ars combinatorial*, CCCB, Barcelona, Spain
2016 *Project Daejon: Cosmos*, Daejon Museum of Art, South Korea
2016 *Extra Fantôme*, La Gaîté Lyrique, Paris, France
2015 *Infosphere*, ZKM, Museum of Contemporary Art, Karlsruhe, Germany
2015 *Three Branches of the Same Tree*, Pump House Gallery, London
2015 *Animated Wonderworlds*, Museum of Design, Zurich
2014 *Da Vinci: Shaping the Future*, ArtScience Museum, Singapore
2014 *Jerwood Open Forest*, Jerwood Space, London
2014 *Vertigo*, SIM Gallery, Curitiba, Brazil
2013 *Galápagos*, CAM, Lisbon
2013 *Radical Fictions*, 4th Exhibition of Digital Art, Instituto Tomie Ohtake, São Paulo, Brazil
2013 *Space Odyssey 2.0*, Z33 House for Contemporary Art, Hasselt, Belgium
2013 *The Dark Universe*, Sonic Acts Festival, New Arts Space, Amsterdam
2012 *Field Conditions*, San Francisco Museum of Modern Art, San Francisco, USA
2012 *Is this Thing On?*, Contemporary Art Center (CAC), Cincinnati, Ohio, USA
2012 *Galapagos*, The Fruitmarket Gallery, Edinburgh, UK
2011 *Watch Me Move*, Barbican, London, UK
2011 *Wild Sky*, Edith Russ Haus Fur Media Kunst, Oldenburg, Germany

2011 *Invisible Fields*, Arts Santa Monica, Barcelona
2011 *Star Voyager: Exploring Space on Screen*, Australian Centre for the Moving Image, Melbourne, Australia
2011 *L'Objet Photographique, une Invention Permanente*, Maison Europeenne de la Photographie, Paris, France
2010 *Black Rain*, RIXC Gallery, Riga, Latvia
2009 *Earth: Art of a changing world*, Royal Academy of Arts, London, UK

Selected Group screenings

2020 *London Short Film Festival*, London, UK
2019 *SOLA*, annual festival for experimental music and moving image, Helsinki, Finland
2019 *The 12th Imagine Science Film Festival*, New York, USA
2019 *The fifth edition of InScience* (international science film festival), Nijmegen, The Netherlands
2019 *Seoul International New Media Festival*, Seoul, South Korea
2018 *Arica Nativa Film Festival*, Arica, Chile
2017 *The 24th Stuttgart Festival of Animated Film*, Stuttgart, Germany
2017 *Rotterdam International Film Festival*, Rotterdam, Netherlands
2016 *Hamburg International Short Film Festival*, Germany
2015 *Beyond the Single Screen*, Tate Britain, London. (Semiconductor in conversation)
2014 *Assembly: A Survey of Recent Artists' Film and Video in Britain 2008-2013*. Tate Britain, UK
2013 *Ann Arbor Film Festival*, USA
2013 *London International Animation Festival*, London, UK
2012 *Curtas Vila Do Conde*, Portugal
2012 *New York Film Festival: Views from the Avant Garde*, New York, USA
2012 *Melbourne International Animation Festival*, Australia
2012 *European Media Art Festival*, Osnabrueck, Germany
2012 *San Francisco International Film Festival*, USA
2011 *11th Seoul International New Media Festival*, Korea
2010 *27th Kassel Documentary Film and Video Festival*, Germany
2010 *Venice Film Festival (Orizzonti section)*, Venice, Italy
2009 *Sundance Film Festival*, USA
2009 *13th Media Art Biennale WRO 09*, Wroclaw Poland
2009 *Cannes Film Festival*, British Council
2009 *31st Clermont-Ferrand Short Film Festival*, France
2008 *Los Angeles Film Festival*, Los Angeles, USA
2008 *Anecy International Animated Film Festival*, Annecy, France
2008 *British Animation Awards*, London (*Awarded Best Film at the Cutting Edge*)

Selected Residencies/Fellowships

2016 FEAT (Future Emerging Art and Technology), De Waag, Amsterdam, Netherlands
2015 Collide@CERN Artist Residency, Geneva, Switzerland (3 months)
2010 Smithsonian Artist Research Fellowship, Mineral Sciences Laboratory, Smithsonian Institution National Museum of Natural History, Washington DC, USA (3 months)
2010 Gulbenkian Galapagos Artists Residency (2 months)
2005/6 ACE International Fellowship: Art and Space Science at UC Berkeley Space Sciences Lab, USA (6 months)

Selected Commissions / Awards / Collections

2019 Purchase of HALO editions for 2 private collections
2019 Purchase of HALO for Audemars Piguet Collection
2018 The 4th Audemars Piguet Commission at Art Basel
2016 Purchase of Earthworks for Sorigué Collection
2016 Sónar Planta commission, Barcelona, Spain
2015 Pump House Gallery commission, London
2014 ArtScience Museum commission, Singapore
2014 Jerwood Open Forest commission, UK (first public sculptural work)
2013 Swarovski commission
2012 Samsung Art + Prize Award
2012 Golden Gate Award for New Visions at San Francisco International Film Festival
2012 Art and Science Award at Ann Arbor Film Festival
2012 ACE Lottery Award
2011 Arts Santa Monica and Lighthouse co-commission. Supported by British Council
2011 FACT and Jacqui Davies co-commission
2009 Awarded the Nature Scientific Merit award for Magnetic Movie at Imagine Science Film Festival, New York
2008 Hirshhorn Museum, Washington, purchase of Magnetic Movie for permanent collection
2008 Centre Pompidou Collection, Paris, purchase of Brilliant Noise
2008 British Animation Awards, London. Awarded Best Film at the Cutting Edge
2007 An Animate Projects commission for Channel 4 in association with Arts Council England

Selected Articles/Reviews

2018 *Art of the Matter*, Financial Times Collecting
2018 *The Art of the Particle*, Wired
2018 *Surveying the Technological Sublime*, Art Monthly, Australasia
2014 *Semiconductor, The (New) Age of Discovery*, HOLO Magazine, CA/USA
2013 *Music of the Spheres*, Film Comment, USA
2011 *Worlds in the Making*, Aesthetica, UK
2011 *Worlds in the Making*, The Wire, UK
2011 *Art and Science collide at Worlds in the Making*, Guardian, UK
2009 *Semiconductor*, Wonderland Magazine, UK

Publications

2018 *The Live Creature and Ethereal Things: Physics in Culture*, Arts Catalyst
2017 *Universe: Exploring the Astronomical World*, Phaidon
2016 *Sound Art. Sound as a Medium of Art*, ZKM, edited by Peter Weibel. Distributed by MIT Press.
2015 *Installation and the Moving Image*, Catherine Elwes, Wallflower Press/Columbia University Press.
2014 *Sound and Image in Digital Media*, Oxford University Press, 2014. *A Noisy Brush with the Infinite* by Laura U. Marks.
2014 *Technoetic Arts: A Journal of Speculative Research*, Volume 12, 2014, Intellect Journals. *Semiconductor's landscapes as sound-sculptured time- based visualizations* by Inge Hinterwaldner.
2014 *Earth Sound Earth Signal*, Douglas Kahn, UC Press.
2013 *Moving Image Review & Art Journal*, Volume 2 Number 2, Intellect Journals. *The meta-physics of data: Philosophical science in Semiconductor's animated videos* by Lilly Husbands