

Matthew Gardiner

Lives and works in Linz, Austria & Geelong, Australia

1976 Born Shepparton, Victoria, Australia.

1997 Bachelor of Fine Art Photography, Victorian College of the Arts

2019 Doctor of Philosophy in Fine Art, PhD by Research, University of Newcastle

URL <http://matthewgardiner.net>

Selected Exhibitions and Projects

- 2019** • *Oribotics [the future unfolds]*, Science Center Singapore
- 2018** • **ORI*** PhD Thesis, Newcastle University
 - *Oribotics [the future unfolds]*, Garten der Künstler, Tulln, Austria
 - *The Folded Geometry of the Universe*, Intersezioni Digitali, Italy
- 2017** • *The Folded Geometry of the Universe*, Experimenta Make Sense, RMIT, Melbourne
 - *Ongoing project: ORI* on the Aesthetics of Folding and Technology* PEEK FWF
 - *NIWASHI 2, large format 3D printing process*
- 2016** • *ORI*LAB*, Ars Electronica Festival, Linz Austria
 - *NIWASHI 2, large format 3D printing process*, Ars Electronica Festival, Linz Austria
 - *ORI*fox*, Ars Electronica Festival, Linz Austria
 - *The Folded Geometry of the Universe*, Ars Electronica Festival, Linz Austria
 - *ORI* coding for matter*, Kyoto Design Institute, Kyoto, Japan
- 2015** • *Oribotics [the future unfolds]*, Osaka, Japan
- 2014** • PhD candidature commenced
 - *Oribotics [the future unfolds]*, Surface to Structure, Cooper Union, New York City
 - *Oribotics [the future unfolds]*, Solidcon Keynote, San Francisco
- 2013** • *Light is Time, Folds Are Space*, Alhòndiga Bilbao, Spain
 - *Project Genesis*, (curator) Ars Electronica Centre, Linz, Austria
 - *Synthetic Memetic*, *Project Genesis*, Ars Electronica Centre, Linz, Austria
 - *Oribotics [the future unfolds]*, Like a Second Nature, Volkswagon, Berlin, (Ars Electronica)
 - *Oribotics [the future unfolds]*, ITU Telecom World, Bangkok, Thailand (Ars Electronica)
 - *Oribotics [the future unfolds]*, VIVID Festival Sydney, Australia
 - *Fixing History*, CERN Computing Centre
- 2012** • *nano-scale-fold*, Wonderland, Museum of Contemporary Art Taipei
 - *Oribotics [the future unfolds]*, Centre d'Art Contemporain Genève, Switzerland
 - *Oribotics [the future unfolds]*, Bremen Fablab, Bremen
- 2011** • *Fixing History*, CERN, Ars Electronica Futurelab
- 2010** • *Oribotics [the future unfolds]*, Tokyo Design Touch, Tokyo, Japan
 - *Oribotics [the future unfolds]*, Ars Electronica Museum, Linz, Austria
 - *Oribotics [futurelab]*, Ars Electronica Festival, Linz, Austria
- 2009** • *RadioBots*, Shepparton Art Gallery
 - *Oribotics [network]*, *Robodays Robot Festival*, Denmark
 - *Oribotics [de]*, Künstlerdorf Schöppingen, Germany
- 2008** • *Oribotics [dublin]*, ArtBots 2008, Science Gallery, Dublin
 - *Oribotics [SLQ]*, State Library of Queensland
 - *Trouble on Planet Earth*, Adelaide Fringe Festival 2008
 - *Evolve in Paper*, Sculpture commission, Evolve building, Sydney
 - *Giant Wishing Cranes*, Sydney Festival for the Arts
- 2007** • *Oribotics [network]*, Melbourne International Arts Festival, Federation Square, Melbourne
 - *Folding Australia 2007*, Origami Convention Director, Melbourne
 - *Artist in Residence*, Federation Square, Melbourne
- 2006** • *1001 Cranes*, Federation Square
 - *Oribotics [laboratory]*, Paper show, Perth Institute of Contemporary Art
 - *Oribotics [laboratory]*, SheppARTon Festival, Shepparton Regional Art Gallery

- *Oribotics [laboratory]*, Unnatural Selection, Manning Regional Art Gallery
- *ABC Sunday Arts TV*, Presenter for Origami teaching segments
- 2005** • *Oribotics [laboratory]*, Asialink Centre, Melbourne University
- *Raising the Rattle, featuring Oribotics [laboratory]*, Big West Festival
- *Oribotics*, Dorkbot Ghent - DorkFest, Ghent, Belgium
- *Oribotics*, Victorian Circus New Media Festival, Amsterdam, Holland
- *Origami House Economy size*, A Re-constructed World, Linden Gallery, Melbourne.
- *Folding Australia 2005*, International origami convention, Latrobe Regional Gallery, Morwell
- *Origami House*, Melbourne Origami Group, Latrobe Regional Gallery, Morwell
- *Oribotics*, Latrobe Regional Gallery, Morwell
- *Imagebank*, Online image resource for CCP, <http://ccp.org.au/imagebank/>
- *Origami*, Project mentor for Phillip Adams & Ballet Lab.
- 2004** • *Oribotics*, Electrofringe, curated by Gail Priest, Newcastle Regional Gallery, Newcastle
- *New/Old*, curated by Michaela French, Platform Gallery, Melbourne
- *Oribotics*, Next Wave Festival, TCB/Uplands Gallery, Melbourne
- *Folding Australia 2*, Origami Convention, Swinburne University, Melbourne
- *Yellow Pages Origami*, Saatchi & Saatchi, Auckland, New Zealand
- *Subaru Interactive @ Docklands*, Creatology/Airstrip, Subaru Docklands, Melbourne
- 2003** • *Folding Australia 1*, Origami Convention, Horti Hall Gallery, Melbourne
- *Boothsite for Booth@acmi*, Technical Director, <http://www.acmi.net.au/booth/>
- 2002** • *Orimattic v0.2*, Bed Supper Club, Bangkok, Thailand.
- *Increasing Origami*, Next Wave Festival, Horti Hall Gallery, Melbourne
- 2001** • *www.papercrane.org launch*, <http://www.papercrane.org>
- *Booth @ ACMI - programmer/developer*, Drome Pty Ltd, ACMI, Melbourne
- 2000** • *Temple of Dreams*, Next Wave Festival, E-media Gallery, CCP, Melbourne
- 1999** • *Corrupted 2 - Chunky Move CDROM*, Drome Pty Ltd, Chunky Move, Cinemedia
- 1998** • *Roadkill Navigator*, curated by Shiralee Saul Experimenta, E-media Gallery, CCP, Melbourne
- *Roadkill Navigator*, curated by Experimenta, Institute of Modern Art, Brisbane
- *NorthWest 2010 - "Planning with your community"*, Drome Pty Ltd
- 1997** • *VCA Graduate Photography*, Centre for Contemporary Photography, Melbourne

Work History

- 2014 - present** *Key Researcher and Artist*, Ars Electronica Futurelab <http://www.aec.at>
- 2011 - 2014** *Senior Research Lead and Artist*, Ars Electronica Futurelab <http://www.aec.at>
- 2000 - 2011** *Airstrip Director*, New Media consulting, <http://www.airstrip.com.au>
- 1999 - 2007** *Multimedia Lecturer*, Swinburne University, National Institute of Design
- 1997 - 1999** *Drome Pty Ltd*, Directors Peter Hennessey and Patricia Piccinini

Residences

- 2012** *Opening Keynote address, TEI 2012, Kingston, Ontario, Canada*
- 2010** *Ars Electronica Futurelab Artist in Residence*, Linz, Austria.
- 2008** *Schöppingen Artist in Residence*, Schöppingen, Germany.
- 2008** *PICA Artist in Residence*, Perth, Australia.
- 2007** *Federation Square Company in Residence*, Melbourne.
- 2005** *Australia Council Studio Residency*, Tokyo, Japan.
- 2004** *Origami House - Tanteidan 10, origami convention mentoree*, Tokyo, Japan.
- 2003** *Digital Artist @ Latrobe Regional Gallery*, Supported by NETS Victoria.

Grants/Awards

- 2013** PEEK, FWF (Austrian Science Fund), €250,000. 36 month funding, Vienna, Austria

2013 Australian Postgraduate Award
2010 *Rupert Bunny Fellowship*, City of Port Phillip, Melbourne, Australia.
2010 New work (established), Australia Council Visual Arts Board
2009 *Ars Electronic Futurelab Residency*, Novamedia, Ars Electronica, Australia Council.
2008 *Radiobots*, Arts Victoria Community Board.
2008 *Professional Development Grant*, Australian Network for Art & Technology.
2008 *Trouble on Planet Earth*, Pick of the Fringe Award
2007 *Trouble on Planet Earth*, Australia Council InterArts Board
2007 *Oribotics [network]*, Arts Victoria Arts Innovation Board.
2006 *Professional Development Grant*, Australian Network for Art & Technology.
2005 *RUN_WAY*, Ozco New Media Arts Board.
2005 *Tokyo Studio Residency*, Ozco Visual Arts and Craft Board.
2005 *Oribotics [laboratory] presented by Aphids*, Ozco New Media Arts Board.
2005 *Oribotics [laboratory] presented by Aphids*, Arts Victoria Arts Craft Board.
2005 *Oribotics [laboratory] presented by Aphids*, Melbourne City Council.
1997 *George Hicks Award*, VCA, for 'Roadkill Navigator' interactive work.
1993 Ilford Photographic Award.
1993 Age/Nikon Photographic merit Award.

Commercial Publications

2017 *ORIGAMI Day of the Dead*. Hinkler Books
2013 *Designer Origami*. Hinkler Books
2008 *Everything Origami*. Hinkler Books, ISBN 978-1-7418-2567-1.
2007 *Folding Australia 2007 Origami Convention Book*. ISBN 0-9757463-0-1 Airstrip Ed. D. Scott.
2005 *Folding Australia 2005 Origami Convention Book*. ISBN 0-9757463-0-8 Airstrip Ed. M. Gardiner.
2003 *Folding Australia 2003 Origami Convention CDROM*. Airstrip Ed. M. Gardiner.
2000 *Temple of Dreams CDROM*.

Academic Publications

Gardiner, M., Aigner, R., Ogawa, H., and Hanlon, R. 2018a. Fold Mapping: Parametric Design of Origami Surfaces with Periodic Tessellations. 7th Origami Science Mathematics and Education Conference.

Gardiner, M., Aigner, R., Ogawa, H., Hanlon, R., and Reitbock, E. 2018b. Fold Printing: Using Digital Fabrication of Multi-Materials for Advanced Origami Prototyping. 7th Origami Science Mathematics and Education Conference.

Gardiner, M. 2015. Folding and unfolding a million times over: Longevity, origami, robotics and biomimetics as material thinking in Oribotics. *Symmetrion* 26, 2, 189–202.

Gardiner, M. 2014. Project Genesis: Ars Electronica. In: *META-Life: Biotechnologies, Synthetic Biology, Alife and the Arts*. Leonardo, MIT Press, 694.

Gardiner, M. 2013. Yours Synthetically. In: *Ars Electronica: Total Recall The Evolution of Memory*. Hatje Cantz, Linz, Austria, 236–251.

Gardiner, M. and Gardiner, R. 2012. The functional aesthetic of folding, self-similar interactions. *TEI '12: Proceedings of the Sixth International Conference on Tangible, Embedded and Embodied Interaction*, ACM, 19–22.

Gardiner, M., Ogawa, H., Lindinger, C., et al. 2012. SWITCH: case study of an edutainment kit for experience design in everyday life. *Proceedings of the Sixth International Conference on Tangible, Embedded and Embodied Interaction*, ACM, 271–274.

Hörtner, H., Gardiner, M., Haring, R., Lindinger, C., and Berger, F. 2012. Spaxels, Pixels in Space - A Novel Mode of Spatial Display. *SIGMAP*, SciTePress, 19–24.

Ogawa, H., Mara, M., Lindinger, C., et al. 2012. Shadowgram: a case study for social fabrication through interactive fabrication in public spaces. Proceedings of the Sixth International Conference on Tangible, Embedded and Embodied Interaction, ACM, 57–60.

Gardiner, M. 2012. The functional aesthetic of folding: keynote address. Proceedings of the Sixth International Conference on Tangible, Embedded and Embodied Interaction, ACM, 17–18.

Gardiner, M., Lindinger, C., Haring, R., Hörtner, H., Ogawa, H., and Ogawa, E. 2011. Social brainstorming via interactive fabrication. Proceedings of the 8th International Conference on Advances in Computer Entertainment Technology, ACM, 76:1–76:2.

Gardiner, M. 2011. Oribotics: The Future Unfolds. In: Patsy Wang-Iverson, Robert J. Lang, and Mark Yim, ed., Origami 5: Fifth International Meeting of Origami Science, Mathematics, and Education. CRC Press.

Gardiner, M. 2010. Oribotics [Futurelab] The Future Unfolds. In: Ars Electronica 2010: Repair - sind wir noch zu retten. Hatje Cantz, Linz, Austria, 278–282.

Gardiner, M. 2007. The code in the fold. Origami as art and Science. Bell on the Hand, Future Design Institute, Tokyo 2, 24–29.

Referees

Peter Hennessey & Patricia Piccinini, artist, Drome Studios, Melbourne.
peter@drome.com.au 0438 332 178

Richard Vella, Professor of Music, University of Newcastle.
richard.vella@newcastle.edu.au (02) 4921 5995

Horst Hörtner, Director, Ars Electronica Futurelab.
horst.hoertner@ars.electronica.art +43.732.7272.0