



Photographs by Bo Wong:
 (Left) Emily McGuire (Centre) Studio Process, 2021;
 (Right) Artist Working Studio 12, PS Art Space, Fremantle

Emily McGuire Practising Artist

B.Fine Arts Honours | B.Arch Hons | M.Phil Arch Research, First Class Honours, University of Melbourne | ARBV.ARBWA Registered Architect

emilymcguire.com | Instagram @emilymcguire__
 PS Art Space | Fremantle, Western Australia.

Work Links:

www.emilymcguire.com
<https://vimeo.com/578373809>
<https://vimeo.com/578371778>

BIOGRAPHY

Emily is an Australian Painter specialising in materials, practising from PS Art Space in Fremantle, WA. Emily is an Exhibiting Artist and has a professional background as an Architect; specialising in silica-activated geopolymer concretes; researching material performance and CO₂ Emissions analysis of geopolymer concretes. Emily is a scholarship recipient at the University of Melbourne, with the Dept Chemical & Biomolecular Engineering Minerals Processing Group. Emily has recently completed a Bachelor of Fine Arts, Honours year at the University of Western Australia - exploring painting, materials, the body and sensory space; with research including neuroaesthetic response to art and process driven painting.

Emily has a continuing thread through her work which engages with how the body connects to space, sound, materials, light and form. Em has geared her Artistic endeavour around building the Resonosphere project – a sound space (sensory space) for humanity. Em is passionate about creating Art to deepen our sensory experience as human beings; and how we can find wellbeing and positive sensory experience through Art. Her silks, spheres and paintings engage with an experience for the body. Em is interested in how we generate a perceptual experience for people through sound, light, materials and space, and also in materials innovation.

AWARDS:

2022 Maker and Smith Film Festival: Short Film Selection Exhibited at:

- Denmark Arts WA, Nov 2022
- Geraldton Regional Art Gallery, WA (date TBA)
- Centre for Rare Trades, VIC (date TBA)

2021 Maker and Smith Film Festival: Short Film Selection Exhibited at:

- Seoul Museum of Craft Art, Seoul, South Korea
- WA Maritime Museum, Fremantle
- Indian Ocean Craft Triennial
- Exmouth Regional Arts WA
- Cowra Regional Art Gallery, NSW
- Araluen Arts Centre, NT, Australian Ceramics Triennale

2020 Finalist Collie Art Prize, WA

- Exhibited work May, 2020, Collie, WA

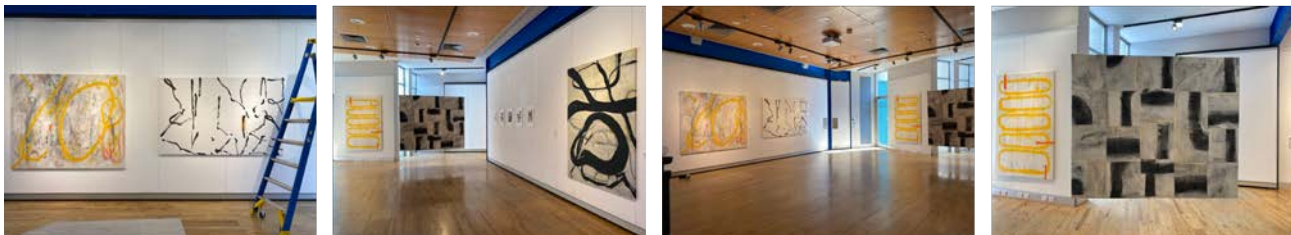
2011 Australian Postgraduate Award, Masters Phil Research in Architecture : Geopolymer Concretes

- 1999 Deans List for Academic Excellence, Architecture, QUT
- 1998 Bachelor Architecture 5th Year Award for Excellence, QUT
- 1998 Deans List for Academic Excellence, Architecture, QUT
- 1998 Fulton Trotter Moss Research Award

ACADEMIC QUALIFICATIONS

Bachelor Fine Arts, Honours, The University of Western Australia, 2022.

Honours Year in Fine Arts: Exegesis, Art Practice, Exhibition of Paintings:



Photos and Artwork by Emily McGuire: Mural Scale Paintings exploring process driven abstraction, Titled: *Code in Abstraction*, 2022
Cullity/ALVA Gallery, Fine Arts Majors Exhibition, Nov 2022.



Exhibition Catalogue: https://issuu.com/uwaschoolofdesign/docs/fam22_catalogue_isuu, page 30.

Research Exegesis and Art Practice majoring in Painting. Exegesis Titled: *Code in Abstraction – The Symbolic and the Sensory*.
Neuro-aesthetics interest – how the brain processes our sensory world.

The University of Western Australia, ARTF1054: Drawing Studio, 2022

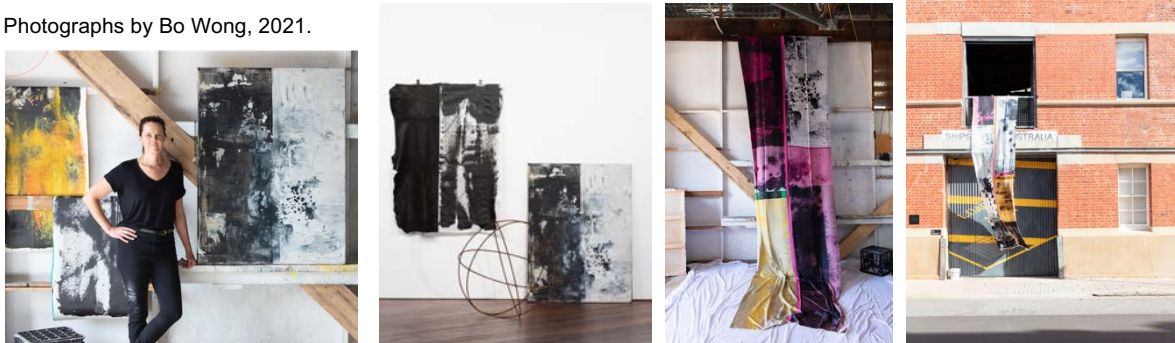
The University of Western Australia, ARTF2054: Drawing, Painting and Print studio, 2021

EXHIBITIONS / PRACTISING ARTIST

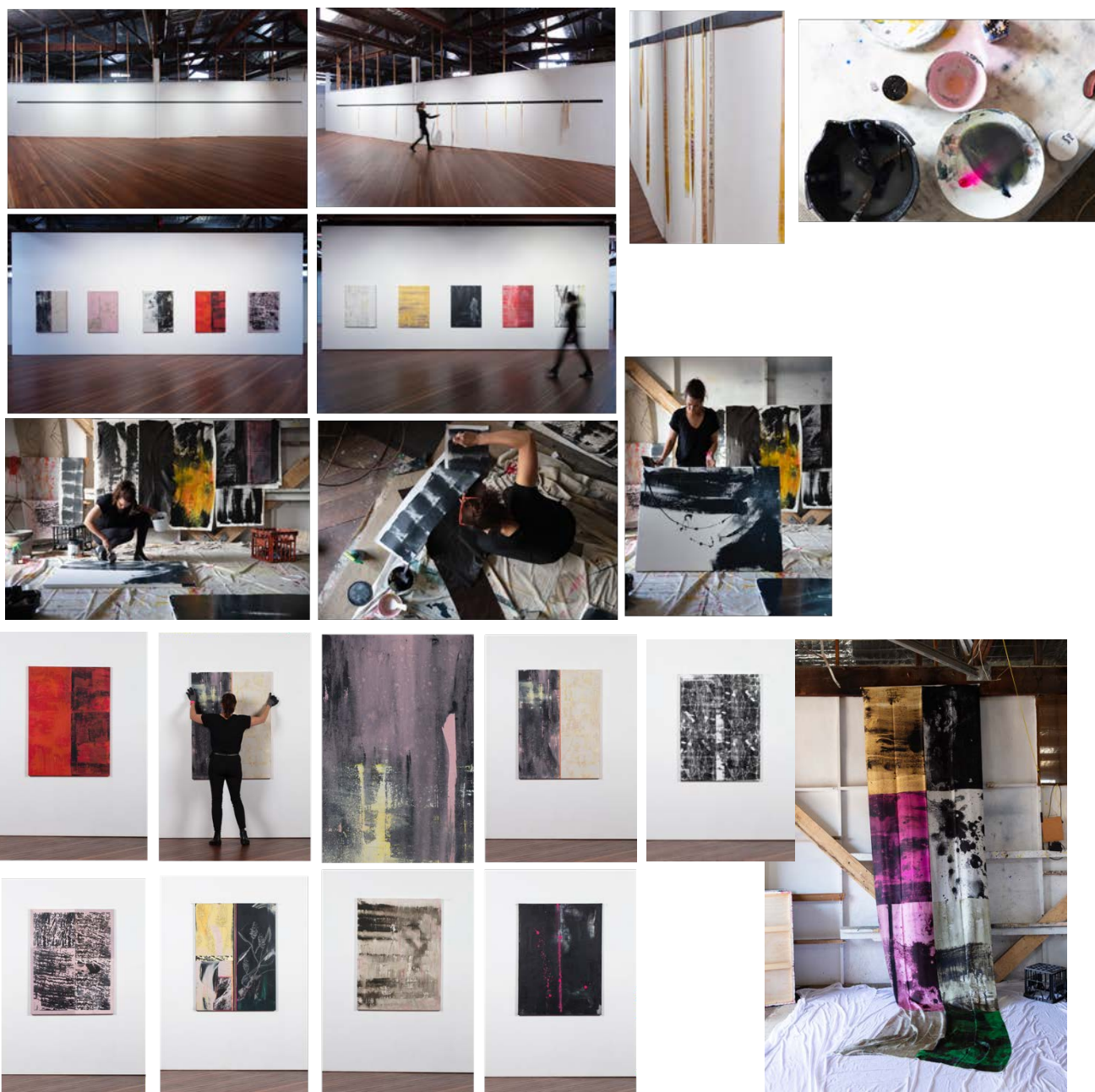
- 2023 Lost Eden Gallery, Dwellingup WA, *Open the Gate*, three Abstract Painters
- 2023 January Month Residency, Lost Eden Gallery, Dwellingup
- 2022 Cullity Gallery, University of Western Australia, Post-Graduate Exhibition (Nov 2022)
- 2022 Lost Eden Gallery, Dwellingup WA, IONIII Exhibition (May 2022)
- 2021 Lost Eden Gallery, Dwellingup WA, *Solastalgia*, Group Exhibition
- 2020 Shroud, Gallery, PSAS, Fremantle, Western Australia
- 2020 Shroud Performance, 3 Bodies 5 Silks, Ground Floor Gallery, PSAS, Fremantle, Western Australia
- 2019 Studio Exhibitions, Pakenham Street Art Studios (PSAS), Fremantle, Western Australia
- 2018 Studio Exhibitions, Pakenham Street Art Studios (PSAS), Fremantle, Western Australia
- 2017 Studio Exhibitions, Pakenham Street Art Studios (PSAS), Fremantle, Western Australia
- 2016 WA World Aids Day Zero Exhibition, Perth, Western Australia
- 2012 Current Pakenham Street Art Studios Fremantle Western Australia
- 2014 Shakespeare Grove Artists Group Exhibition, St Kilda, Melbourne
- 2013 Shakespeare Grove Artists Group Exhibition, St Kilda, Melbourne
- 2012 Shakespeare Grove Art Studios St Kilda Melbourne
- 2011 Masters Research Geopolymer Concretes
- 2009 Swinging Lantern Exhibition Melbourne
- 2008 2007, 2006 Red Box Art Studios Fitzroy Melbourne
- Artistic Development*
- 2019 Resonosphere development, Upper Hand Limit Silk Screens, Last Drillhole artworks
- 2018 Resonosphere and Hand Installations
- 2017 Studio practice and materials research
- 2016 WA World Aids Day Zero Exhibition
- 2015 Geosonics Sound Space Project
- 2015 Endangered Species Series
- 2015 ArtShakti. Food Art, Health Body
- 2014 Art for Space/Space for Art Project
- 2014 Meditate Create Tythe Project
- 2013 Sound Body Health Project 2012 House, Fitout and Steel Screens Design and Installations
- 2011 M.Phil, 1 year APA Scholarship
- 2009-2010 Research & Professional Practice
- 2008 Design of High Performance Concretes
- 2004-2007 Steel Screens, Silk Screens; Lighting Exhibition and Installation
- 2000-2004 Residential Architectural Design and Construction Delivery / Fitouts.

SAMPLE IMAGES / ARTWORKS:

Photographs by Bo Wong, 2021.



Photos: Artworks by Emily McGuire, Sample Artworks from *Shroud, Beauty in Death* Exhibition (2020) and *3 Bodies 5 Silks* Performance, PS Art Gallery. Paintings, 36 x 48" samples of the series; Silk Shroud works; Prayer wall; studio process shots; some painting images.



Full catalogue of past works available.



ACADEMIC QUALIFICATIONS continued :

M.Phil Research Architecture (First Class Honours), The University of Melbourne, 2013

Co-Supervised: Dept Design+ABP & Dept Chemical +Biomolecular Engineering, Minerals Processing Group

Post-graduate APA Scholarship. Title: **Geopolymer Concretes: Design attributes, CO2 emissions analyses and material performance:** <https://minerva-access.unimelb.edu.au/handle/11343/37934>**Abstract:**

Concrete underpins ancient and modern engineered cities, and combined with steel is a key material used in modern construction. Architects have the capacity to influence the uptake of energy efficient systems used in construction. The 3.3 billion tonne p.a. Portland cement industry generates almost 10% of global anthropogenic carbon dioxide emissions. With the latent and rapid industrialisation of China and India and other developing countries, cement demand is projected to double to 6 billion tonnes p.a. by 2050. An alternative technology, geopolymer, uses an alkali activator which combines high portions of industrial by-product to form an alternative binder for concrete. There is much debate in industry regarding the environmental and structural performance of geopolymers. This thesis re-evaluates the carbon dioxide emissions associated with geopolymers, and examines key material attributes affecting viability. The appropriate manufacturing path for the alkali activator can achieve a reduction in carbon dioxide emissions of 59 - 92% compared to Portland cement. At present there is some limited commercial uptake of geopolymer concrete in select markets such as Russia, Australia and China. However, there is no wide global-scale utilisation. Barriers and opportunities for uptake are reviewed in this thesis. A saving of 600 billion tonnes of carbon dioxide emissions over the next four decades will be needed to achieve the stabilisation of greenhouse gas emissions concentrations between 450 and 550 parts per million of carbon dioxide emissions equivalent. With this mounting challenge, combined with the activation of global carbon markets predicted to be worth in excess of AUD 1 trillion within 5-10 years, there is likely to be growing interest in cement sector technologies which can deliver major reductions in carbon dioxide emissions.

B.Architecture (Hons), Queensland University of Technology, 2001Fulton Trotter Moss Research Scholarship for Bachelor of Architecture: **The effect of Architectural-Spatial Environments on Human Health. Case study exploring psychiatric inpatient hospital settings + comparing therapeutic models + spatial dynamics**

OVERVIEW

QUALIFICATIONS	INSTITUTION	ACHIEVEMENT
Bachelor Fine Arts Honours	University of Western Australia School of Design	Awaiting Result, 2022.
Masters Research Degree: Design & Performance Attributes Geopolymer Concrete Technology	University of Melbourne Dept ABP & Chemical & Biomolecular Engineering Minerals Processing (Geopolymers) Group	First Class Honours Scholarship
Registered Architect.	Architects Registration Board of Victoria ARBV Architects Registration Board of WA ARBWA Archicentre Australia	Registered Architect Registered Architect Design Expertise
Bachelor of Architecture	Queensland University of Technology Exchange Milan Politecnico	Fulton Moss Scholarship Honours Deans List for Academic Excellence Certificate Certificate Professional Training
Certificate in Business Management SimaPro Life Cycle Assessment Carbon emissions analysis	Royal Melbourne Institute of Technology Royal Melbourne Institute of Technology Management Consulting, Australia	

PROFESSIONAL BACKGROUND / PROFILE

- **Registered Architect** Housing & fitout design; specialised steel screens and fitout detailing. Consulting in (ESD) Ecologically Sustainable Design on projects in Australia, Asia, Pacific, UK and South America. Residential through to large scale industrial design; principal consultant roles.
- **Research Masters Scholarship – Technology and Innovation** - The University of Melbourne with the Minerals Processing Group: Department of Chemical & Biomolecular Engineering and Department of Architecture, researching low-carbon geopolymer concrete systems
- **Specialist CO² Emissions analysis for geopolymer versus Portland cement based concretes/ concrete sector analysis.**
- Product Development Manager for Acid and Fire Resistant Geopolymer Concretes, Startup, Solidrok Pty Ltd, WA
- **Carbon Measurement and Mitigation reporting** for engineering/ construction projects. Embodied energy analysis of materials; Energy and greenhouse gas emissions reporting; abatement strategy for corporate and government projects.
- **Carbon Consulting** to Construction, NGO & Mining Sectors; carbon compliance and reporting: carbon mitigation projects NE Africa: voluntary carbon market. Carbon reporting and design strategies for energy efficient infrastructure and construction systems; prefabricated housing; lightweight panel systems; Client Manager / Tenders / Construction Proposals / Corporate Bids. *Full Employment History also available.*