

# VALERINE CHANDRAKESUMA

## CONTACT

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I am an Indonesian who's been living in Canada in the past 10 years. I am trained as an architect and passionate about learning for nature and designing for nature. This is reflected in all my work which is dedicated to human and nature as an equal client. I believe that waste is a valuable nutrient from which utility and beauty can be created. Currently working to facilitate transdisciplinary collaboration to re-envision production and end-of-life systems; for a future where our relationship with materials is regenerative by design.

## SKILLS

### DESIGN

AutoCAD, Rhino, Sketchup, Revit, Adobe Creative Suite for graphic design, photo and video editing and animation. Woodworking, Digital Fab (CNC, Lasercut, 3D Print, etc)

### FINE ART

Printmaking, Drawing, Acrylic painting, Plein Air Watercolour, Darkroom Photography, 3D Site Installation

### FIELDWORK

Wildlife field sketching, ecological surveys methods, core sampling, vegetation line, mist net, Statistics, , assessing environmental variables (moisture, temperature, pH, PAR intensity)

### LANGUAGES

Indonesian (Native), English (Native), Mandarin (spoken), French (B2)

## AWARDS

2019

### SELECTED WORK

#### Museum of Vancouver

Displaying a 1:10 model of Plastic monument

2018

### FIRST PRIZE

#### Biodesign Challenge in MOMA, New York

For MYCOmmunity toilet design and prototype

### FIRST PRIZE

#### Fast+Epp Architecture and Engineering Competition

Skatepark Timber Canopy composed out of recycled skateboard decks as it's joist.

## EXPERIENCES

May 2018- Present

### DESIGN DIRECTOR

#### Melt Collective

Circular economy innovation lab based in Vancouver

### RESPONSIBILITIES

Training new members for workshop tools and precious plastic machines, Facilitating and advising member's projects, Research on recycled plastic waste as Architecture Material, R&D of Biomaterials, conducting circular economy workshops. Project lead for establishing a decentralised waste management and circular economy lab for Nusa Penida and Komodo island

May 2018-present

### CO-FOUNDER, R&D

#### MYCOmmunity Toilet

Compostable waterless portable toilet made out of Mycelium.

### RESPONSIBILITIES

Developed concept and design together with Biologist from UBC's Hallam lab. Building a mushroom cultivation facility and researching different species of mycelium for its structural properties and compostability. Currently working on pilot testing our full scale prototype.

Jan 2019-Dec 2019

### RESEARCHER

#### Living Breakwaters Project

Innovative Adaptation Strategies for Coastal Erosion funded by Natural Resources Canada

### RESPONSIBILITIES

Developing blocks of local materials that can function as a marine breakwater, providing habitat and slope stabilization at the UBC escarpment. Task includes testing local soils, designing habitat block modules, fabricating and testing prototype blocks, and preparing a report documenting research activities.

Jan 2015-Aug 2015

### ART TEACHER

#### Paint a Smile

### RESPONSIBILITIES

Weekly art workshops to foster self-expression and confidence in children and youth who live with disabilities, Committee board member responsible for fundraising for the charity

Jan 2014-Aug 2015

### MUSIC TEACHER

#### Music Box Children Charity

### RESPONSIBILITIES

Designing and delivering weekly Music Classes for children (5-9yo) in Robertson House, a women shelter in Toronto

## EDUCATION

2015-2021

### Master of Architecture University of British Columbia

### SELECTED PROJECTS:

- A Circular revolution: Rethinking how we educate architects
- Float plane terminal that provides wildlife refuge at Fraser River wetland,
- Regenerative landscape for forest rehabilitation in Haida Gwaii
- Algae powered public pool for Klang river in Kuala Lumpur

2011-2015

### Hon. Bachelor of Arts University of Toronto

### MAJOR IN VISUAL ARTS AND ENVIRONMENTAL STUDIES

I also participated in 3 semester abroad programs:

- **Australian Environment, Wildlife, and Conservation** University of New South Wales, Australia, 2014
- **Ecology and Conservation in Galapagos, Andes, Amazon** Universidad San Francisco de Quito, Ecuador, 2014
- **Renaissance and Baroque Art and Architecture** Università degli Studi di Siena, Italy, 2013

2013

### Rome Art Program

I received a merit based scholarship for two semesters of plein-air painting, drawing and art history course in Rome