

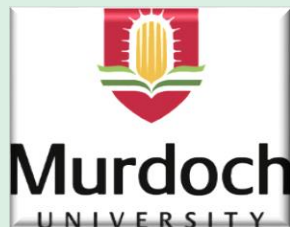


Qualitative Research Methodology [for Transformative Learning & Sustainable Development]

Prof Dr Peter Charles Taylor, iTERN / Murdoch University

&

Dr Elisabeth (Lily) Taylor, Edith Cowan University



Challenge

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The **field** of qualitative research is *complex, chaotic, contested*...with various labels such as:

- mixed methods
- qualitative & quantitative research
- case study
- narrative inquiry
- participant action research
- ethnography
- autoethnography
- integral research
- and more...

Ref. Taylor, P. C. (2014). Contemporary qualitative research: Toward an integral research perspective. In N.G. Lederman & S.K. Abell (Eds.). *Handbook of research on science education: Volume II* (pp. 38-54).²² Routledge.

The Way Forward

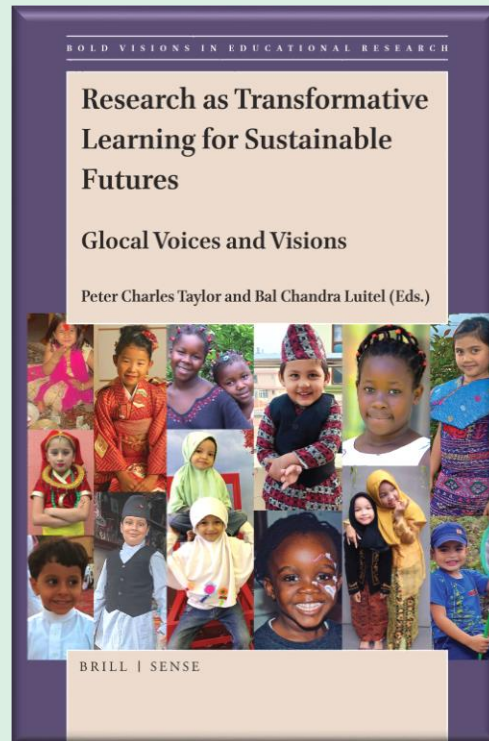
To be a good *qualitative researcher* we need to be clear about:

- our **purpose** (*describe?, understand?, transform?*)
- how to **position** ourselves (*values?, agency?*)
- what type of **knowledge** to produce (*interpretive?, critical?, values?*)
- how to **produce** knowledge (*which methods?*)
- how to **represent** knowledge (*unfolding?, reflectively?, narratively?, imagery?*)
- **quality standards** (*trustworthiness of others & self?*)
- research **paradigm** (*single? multiple?*)

Our Purpose as Teacher Educators

To engage *students* in *multiparadigm* qualitative research as *transformative learners* for the purpose of developing *capabilities* for promoting *sustainable development*.

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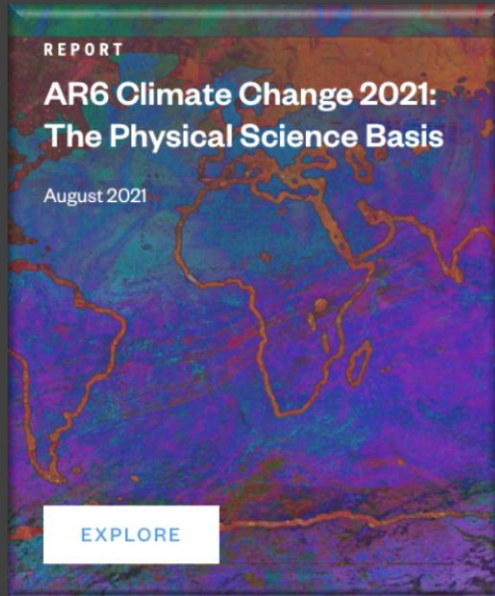


Today's Topics

1. Sustainable development
2. Transformative learning
3. Multiparadigm research
4. Practical examples
5. Q&A

=> one semester in one hour!

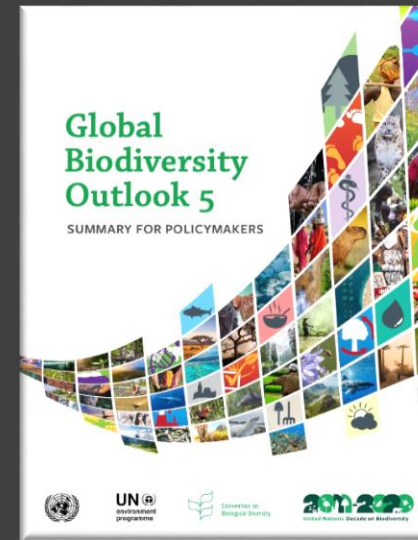
environmental *sustainability* crises



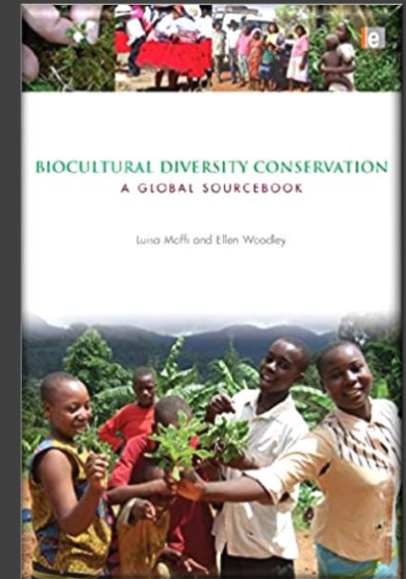
climate change



plastic pollution



biodiversity loss



cultural diversity loss

plastic pollution . . .



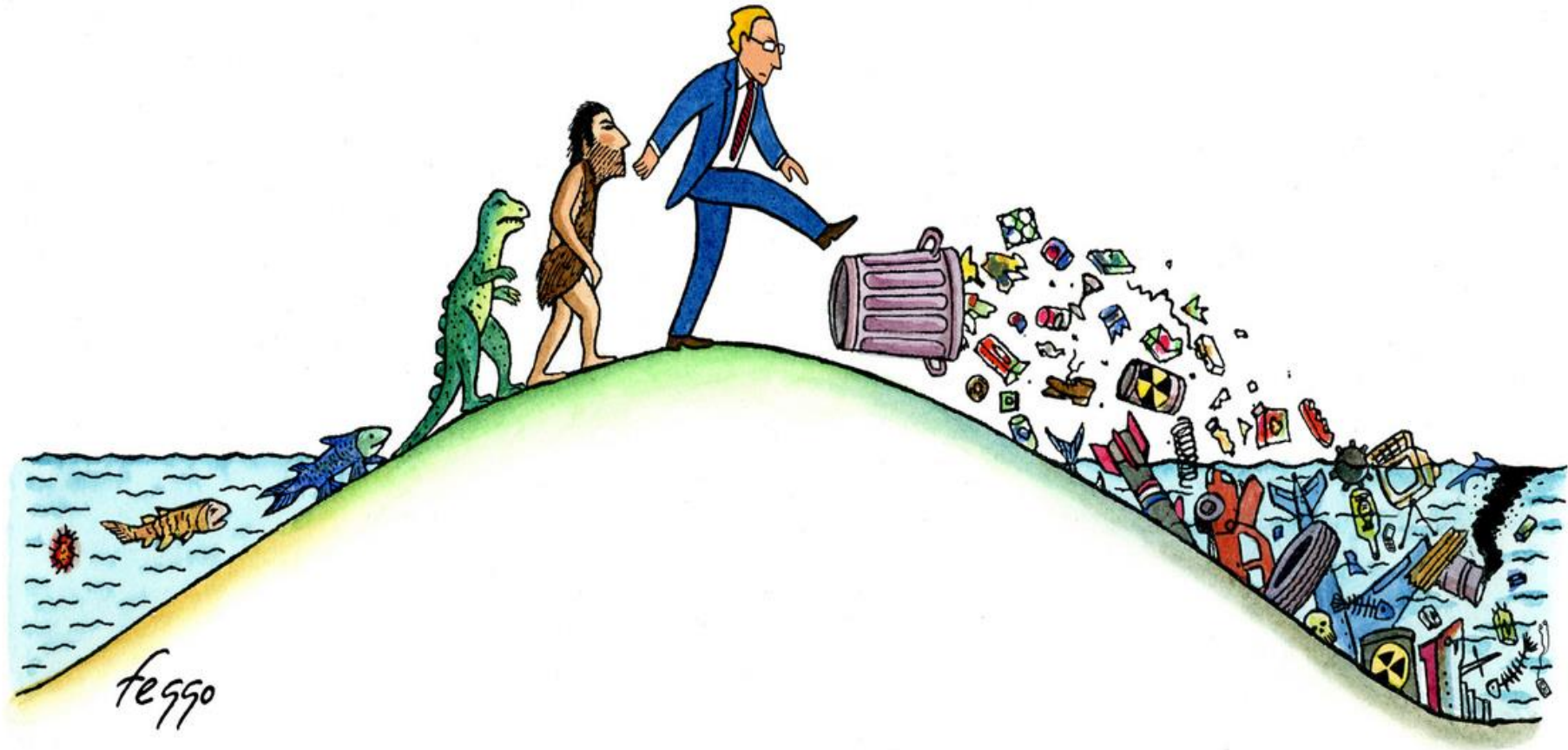
Each year, at least 8 million tonnes of plastics leak into the ocean - which is equivalent to dumping the contents of one garbage truck into the ocean every minute...

World Economic Forum, 2016



... the ocean is expected to contain 1 tonne of plastic for every 3 tonnes of fish by 2025, and by 2050, more plastics than fish (by weight).





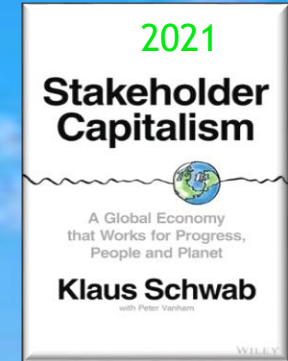


Klaus Schwab
Executive Director
World Economic Forum



“As knowledge and discoveries...progress our focus and commitment to having ongoing moral and ethical discussions is critical.”

“...we need a society, economy, and international community that is designed to care for all people and the entire planet.”

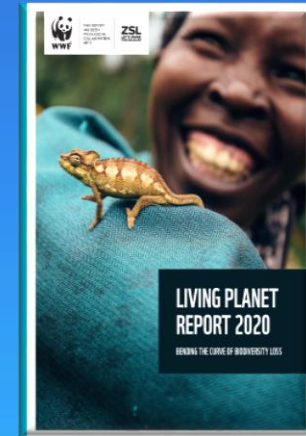




Carter Roberts
President & CEO
World Wildlife Fund

“Living Planet Report 2020:
Bending The Curve Of Biodiversity Loss”

“...a deep cultural and systemic shift is urgently needed... transition to a society and economic system that...recognises that *we depend on nature* more than nature depends on us.”



<https://livingplanet.panda.org/en-us/>

“Transforming Our World: 2030 Agenda for *Sustainable* Development”

Principles

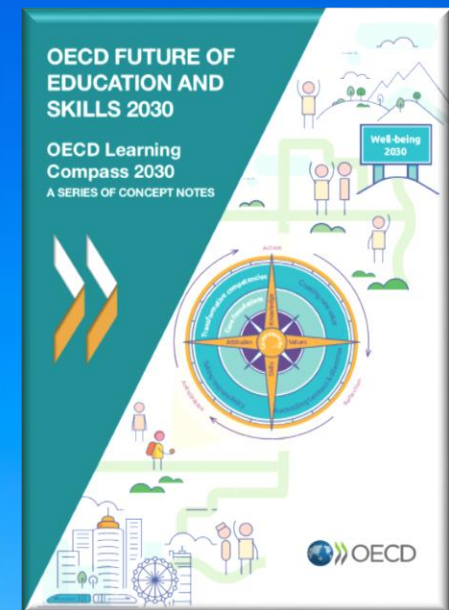
- well-being of humanity & planet
- intergenerational commitment
- moral imperative (ethical values)



<https://sdgs.un.org/2030agenda>

“Future Of Education And Skills 2030”
...the “new normal” in education

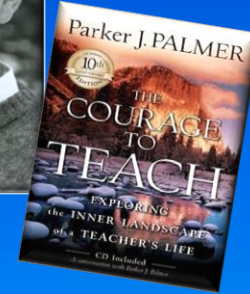
“Students who have the capacity to *take responsibility* for their actions have a *strong moral compass* that allows for... considered reflection, working with others and respecting the planet.”



Carol Gilligan



Parker Palmer



feminism

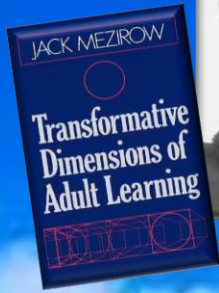
spirituality

constructivism

the Arts

'W20' scholars of transformative learning

Jack Mezirow

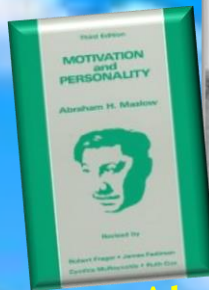


democracy

philosophy

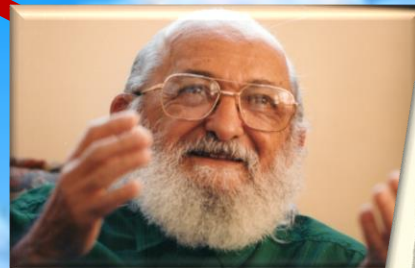
sociology

Abraham Maslow

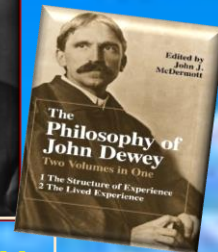
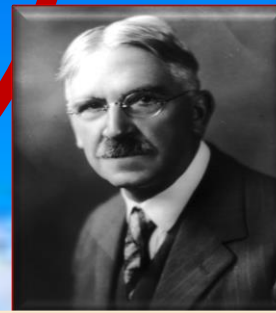


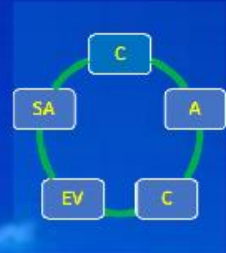
psychology

Paolo Freire



John Dewey





relational knowing



practical knowing

cultural-self knowing

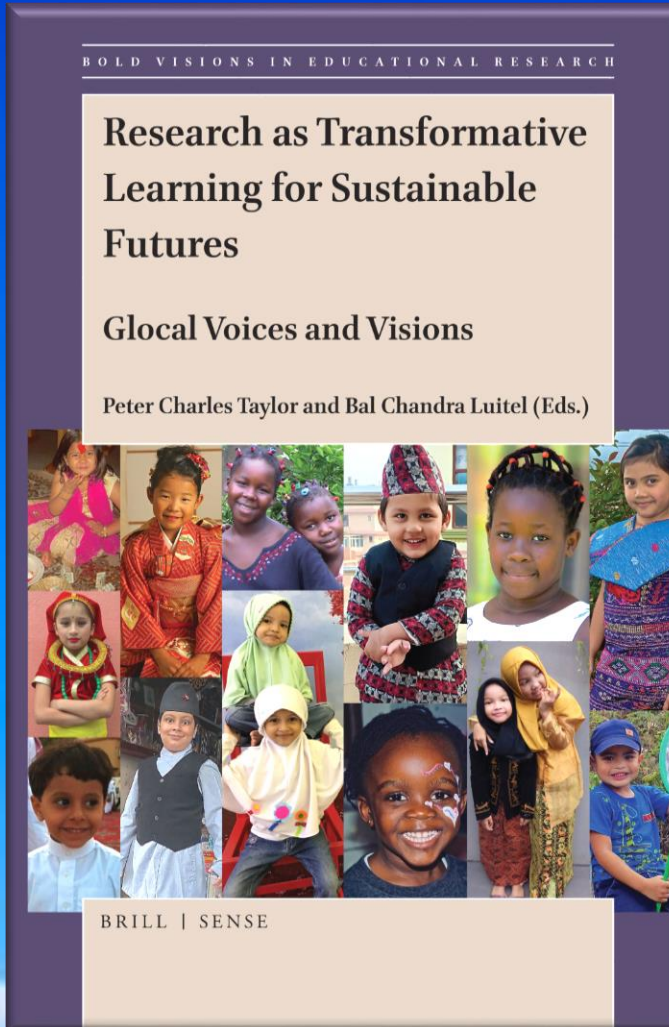


visionary ethical valuing



critical-social knowing

Research as Transformative Learning (2019)



Multiple Research Paradigms

...1900s.....1980s.....1990s.....2000s.....2010s.....



to explain law-like properties
NATURAL SCIENCES

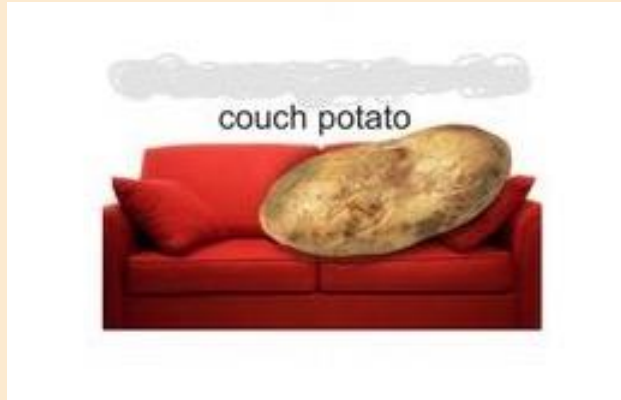
to understand self-other
ANTHROPOLOGY

to drive social justice
SOCIOLOGY & POLITICS

to promote new vision
THE ARTS

to foster holistic development
INTEGRAL PHILOSOPHY

Metaphor



research as...



...fishing

positivism



The positivist fisherman observes a group of fish

(without getting wet),
measures their behaviour,
and deduces a pattern.

[‘quantitative methods’]

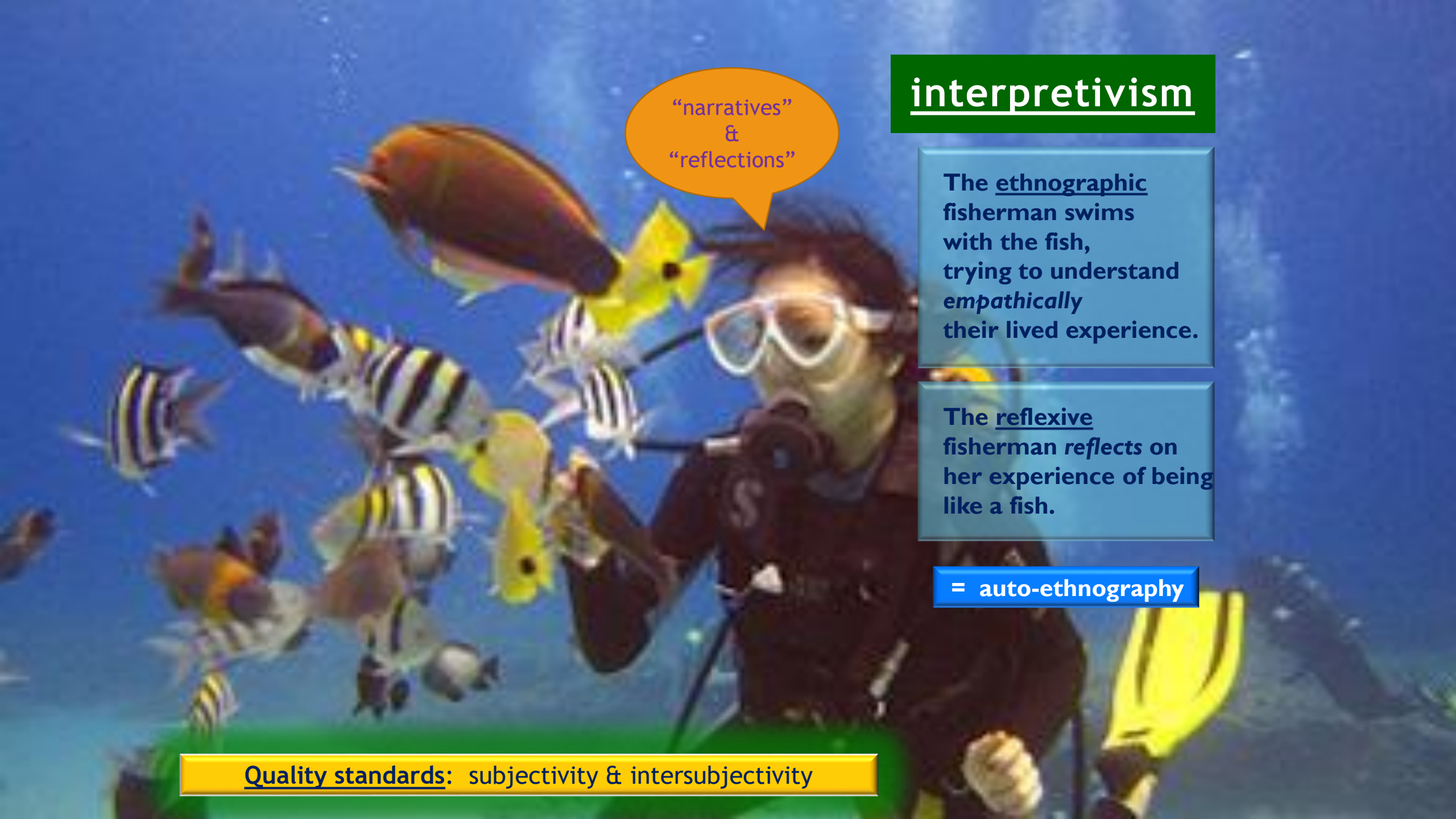
$$f(x) = a_0 + \sum_{n=1}^{\infty} \left(a_n \cos \frac{n\pi x}{L} + b_n \sin \frac{n\pi x}{L} \right) + \text{words}$$

And, she may interview a sample of fish to *confirm* the pattern.

[‘mixed methods’]



Quality standards: objectivity, validity,
reliability



“narratives”
&
“reflections”

interpretivism

The ethnographic fisherman swims with the fish, trying to understand *empathically* their lived experience.

The reflexive fisherman *reflects* on her experience of being like a fish.

= auto-ethnography

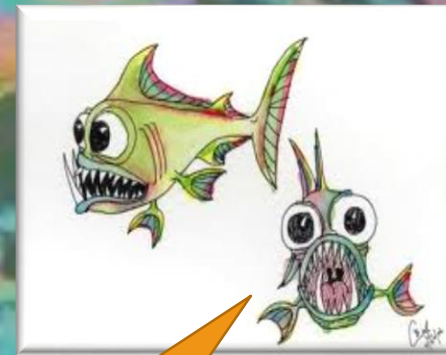
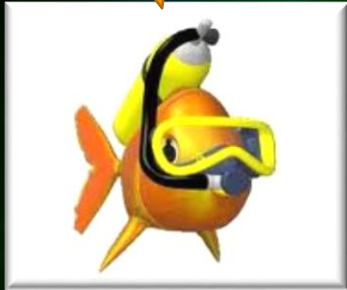
Quality standards: subjectivity & intersubjectivity

criticalism

The critical fisherman empowers the fish:

- to see the pollution
- to understand the impact on their health
- to identify the source
- to develop a healthier vision
- to take action to the waterclean

“Ohhhh”



“Help!!”

Quality standards: ecojustice, social justice, critical reflection, agency & praxis

postmodernism



The postmodern fisherman uses *artistic expression* to portray her feelings about *engaging in fishing*.

- images
- metaphor
- poetry
- plays

Quality standards - aesthetics, emotional engagement, complexity

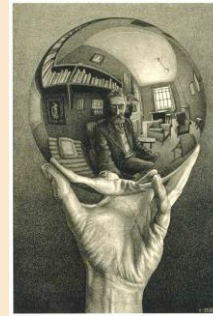
Multiple Paradigms

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Pvsm



Intvsm



Crtlsm

IF YOU WANT PEACE WORK FOR JUSTICE



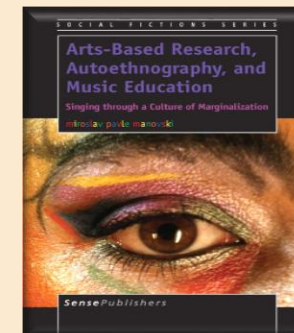
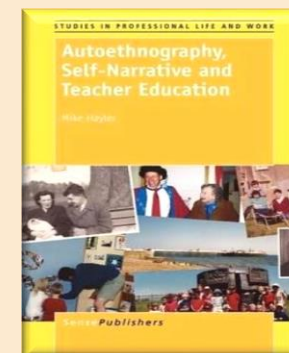
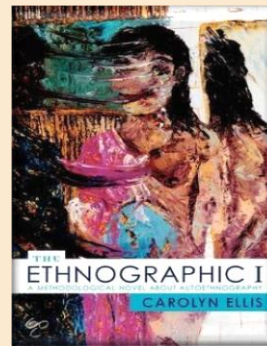
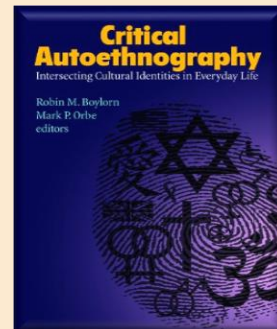
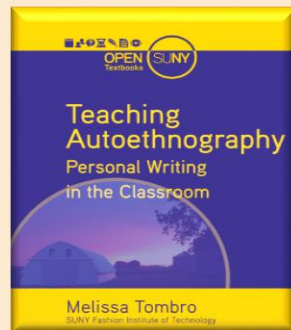
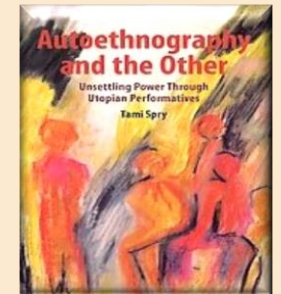
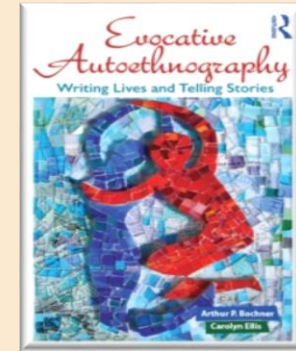
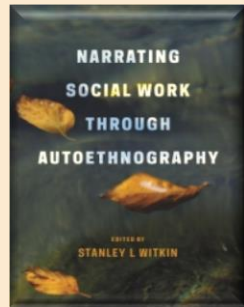
Pmdsm

Multiparadigm Qualitative Research Design



Auto-Ethnography + Critique + Arts

= Arts-based Critical Auto-Ethnographic Inquiry



Thank you
for your
kind
attention!!

