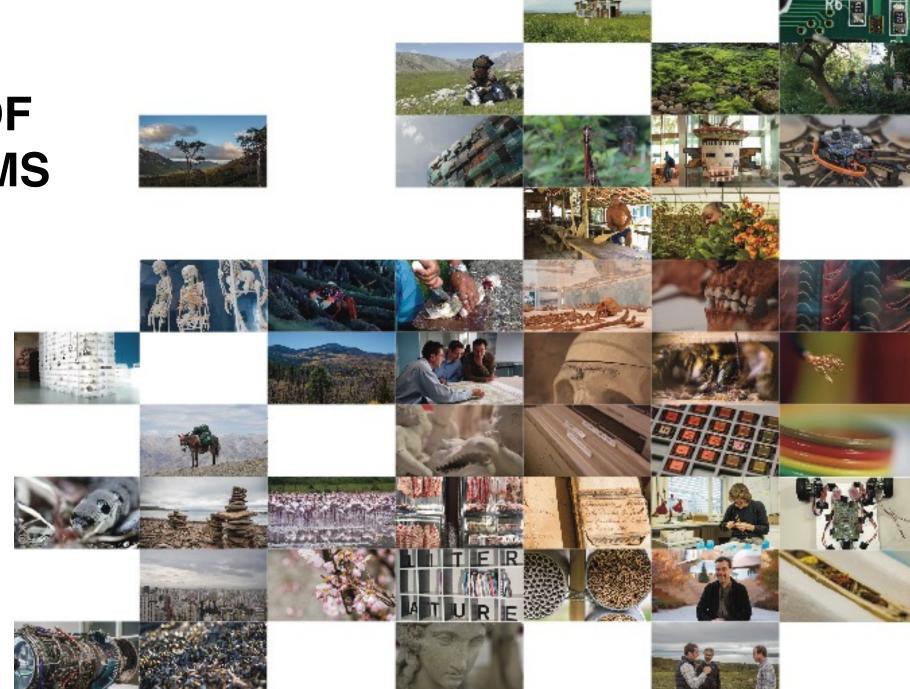
# CO-DESIGN OF SCIENCE FILMS

**Jeanine Reutemann** 

Science meets Film RedMorpheus GmbH, Switzerland

Research & Teaching Centre for Innovation Leiden University, Netherlands













## rotein basics

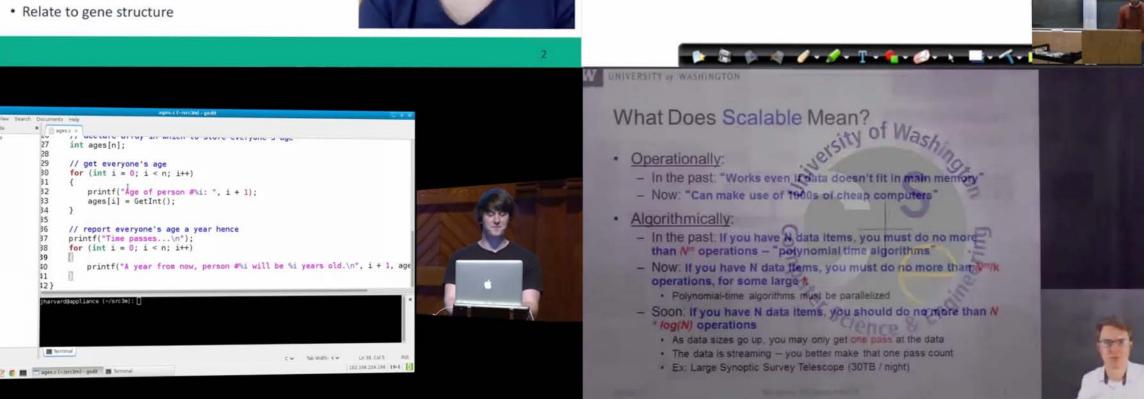
### Outline:

- · Polymers of amino acids
- · Order specified by bases in mRNA
- Fold spontaneously into catalytic structures, driven by hydrophobic effects and hydrogen bonds

### earning Objectives:

· Describe protein 1° and 2° structure





1110061 M

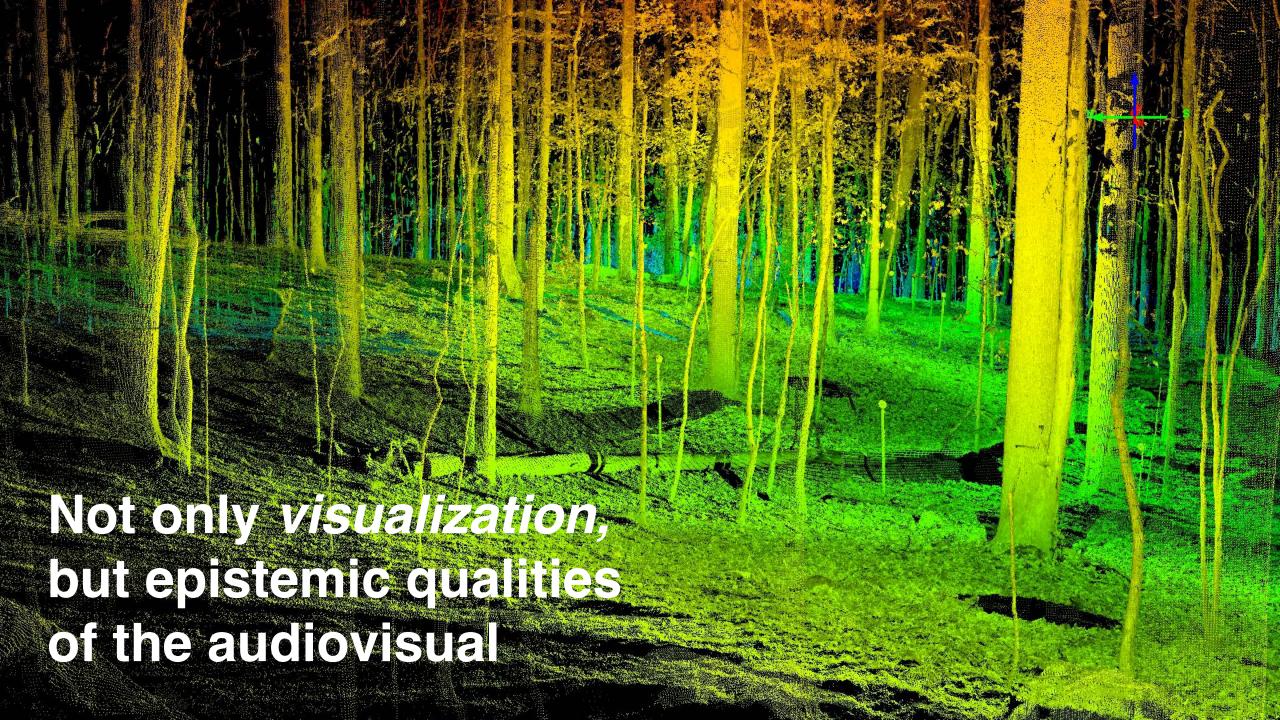
Research Video: Videos in Higher Education – A Journey into the World of Digital Education



We were able, for instance, to put together views of living amphibians which no one had been able to see in that range of time ever.

The visual effect was devastating.

DAVID ATTENBOROUGH



A task that is not ungrateful would be [...], to record the shooting of a forest mushroom or the rotation of a sunflower during a day in a series of shots. The growth could be studied in this way very beautifully.

GEORGE WHITESIDES IN BERKOWITZ, JACOB: "VIDEO ABSTRACTS, THE LATEST TREND IN SCIENTIFIC PUBLISHING: WILL PUBLISH OR PERISH SOON INCLUDE VIDEO OR VANISH?"

2013

A task that is not ungrateful would be [...], to record the shooting of a forest mushroom or the rotation of a sunflower during a day in a series of shots. The growth could be studied in this way very beautifully.

TRANSLATED INTO ENGLISH,
ORIGINAL IN GERMAN:
LUDWIG MACH: »UEBER DAS PRINCIP DER
ZEITVERKÜRZUNG IN DER SERIENPHOTOGRAPHIE«,

1893

You had to be able to describe your science in words, or tables, or in plots, in two-dimensions on a piece of paper. [...] With videos, you can now describe dynamic phenomena which are simply too complicated, too complex, too unusual, too full of information to do in words and two-dimensional pictures'.

GEORGE WHITESIDES IN BERKOWITZ, JACOB: "VIDEO ABSTRACTS, THE LATEST TREND IN SCIENTIFIC PUBLISHING: WILL PUBLISH OR PERISH SOON INCLUDE VIDEO OR VANISH?" UNIVERSITY AFFAIRS,

2013

# Co-Design: World's collide!

# Technoaesthetics (Technology & Aesthetics)







# (Audio)visual Language rhetorics and characteristics

# IMAGE-SOUND RELATION IN FILM

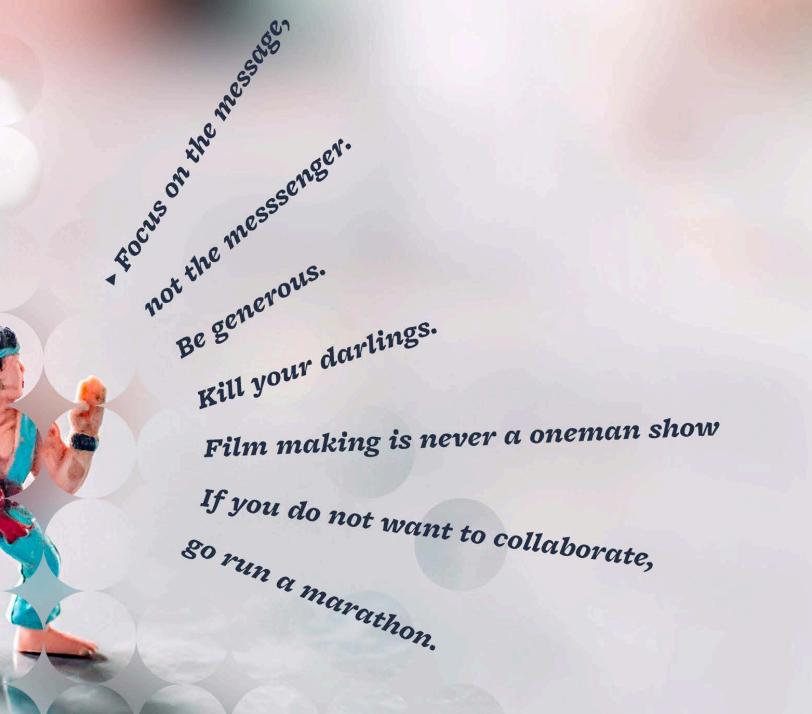
# Synchrese:

«forging of an immediate and necessary relationship between something one sees and something one hears at the same time.»

MICHEL CHION: AUDIO-VISION: SOUND ON SCREEN, 1994.







COLLABORATIVE
PROCESS DESIGN AND
CO-AUTHORSHIP

Filmmaking is never a one-man-show.

If you do not want to collaborate, write a book.

# Researcher

Clarify message
Edit edit
Start thinking visually
Listen carefully to filmmaker
Dive into basic rhetorics of film
Have fun

# Researcher

Clarify message
Edit edit
Start thinking visually
Listen carefully to filmmaker
Dive into basic rhetorics of film
Have fun

# **Filmmaker**

Responsibility «good light»
«Changing perspectives»
Stay high-quality aware
Be strikt on deadlines, decisions
Dive into basics of researchers area
Avoid meaningless hyperaesthetics
Have fun

PUBLICATION: J.REUTEMANN, INTO THE FOREST – ÜBER DIE GEGENSEITIGE EPISTEMOLOGISCHE UNTERWANDERUNG VON WISSENSCHAFT UND FILM, 2017.



**Jeanine Reutemann** 

Presentation on: audiovisualresearch.org/ Presentations (cc licence)