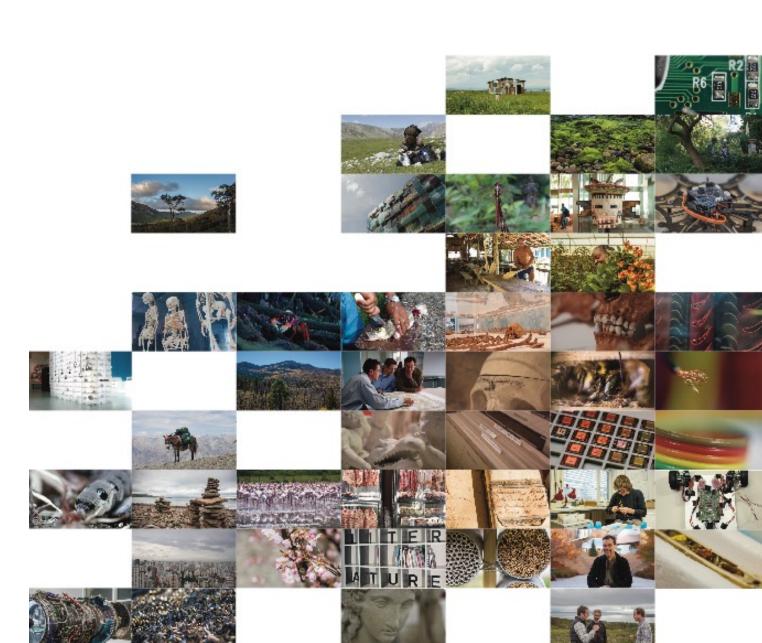
#### CO-DESIGN OF SCIENCE FILMS



Science meets Film RedMorpheus GmbH, Switzerland

Research & Teaching Centre for Innovation, Leiden University, The Netherlands

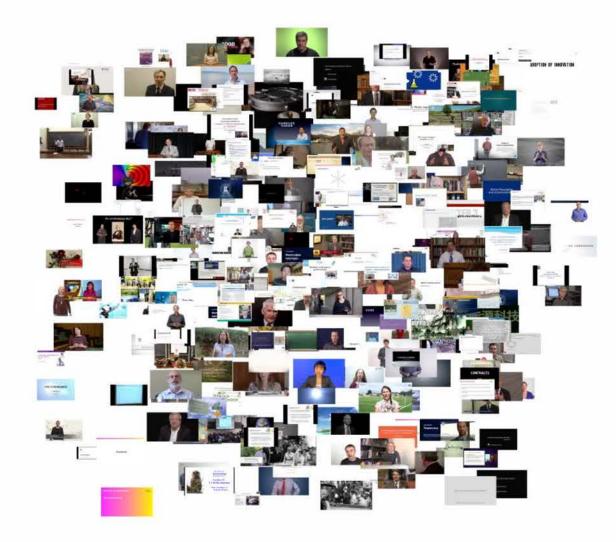












# **RESULTS** 448 Lecture Videos

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Sounddesign -					
Over-voice -					
Computerwriting -					
Computer screen -					
Webcam -				0 000 0 0 0 000	
Book Shelf					0 0000 0
Splitscreen -					
Greenscreen					
Monochrome surrounding					
Classroom with students					
Mediumlongshot -					
Longshot -					
Camera Movement -			0 0 000 00 0	0 000 0	
Digital Zooming		••••	• • •	•	
Classroom without students -	• • • • •			•• • •	
Slow Motion -		•	• • •		
Extremeclose-up		•		•	• • •
Time Lapse -	•••	• •	•		••••
On-Location -				• • • • • •	
Outdoor -					• • • • • • • • • • • • • • • • • •
Close–Up -			• • • •		
Handheld Camera -				• • •	
Moving Images -					
Ratio -					2 2 2 2 <b>2 2 3</b>
Gaze into camera -					
Talking Head -		NUE O CERTIFIC DESIGN D CERTIFIC			
Presentation Slides with visible speaker -					
Presentation Slides without visible speaker -					
Indoor -					
Mediumclose-up					
Visible Words -					
Graphic / Diagram / -					
Still Photography -					
Several speakers -					
Speaker ALWAYS visible					
Gaze next to camera					
Montage -					
Multiple Camera Positions of Speaker					
Shoulderclose-up					
Depth of Field					
Lower thirds					
Music -					
Animation -	** ** *** *				
Moving Photography -		10 0 0 0 0 0 0			
Credits -	0 000 00 000 0	00 00 00 00	0 00 0 000 00 00 0 0		
Intro Course -	• • • • • • • • • • • •				



#### 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:

Search Documents Halp × | |] agen.c it

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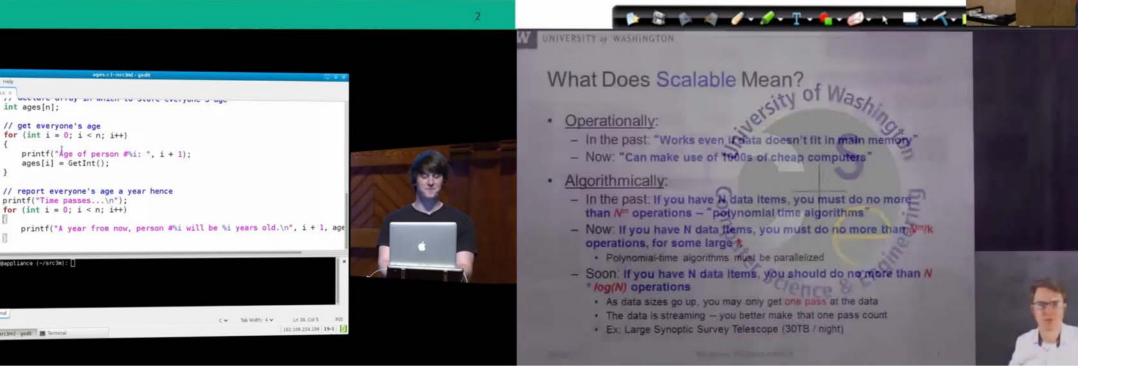
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- Describe protein 1° and 2° structure
- Relate to gene structure

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

110001 11

# Technoaesthetics (Technology & Aesthetics)

## ....science communication with film... ...science transformation through film...

A grateful task would be [...], to record the shooting of a forest mushroom [...] during a day in a series of shots. This would a very appealing way to study the growing process.

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

#### 2013

A grateful task would be [...], to record the shooting of a forest mushroom [...] during a day in a series of shots. This would a very appealing way to study the growing process.

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. [...] With videos, you can now describe dynamic phenomena which are simply too complicated, too complex, [...] 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

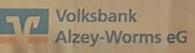
### (Audio)visual Language

rhetorics and characteristics



# A 014 Hörsaal

Mit freundlicher Unterstützung With friendly support





## **IMAGE-SOUND RELATION «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.

Chair of Ecosystem Management, ETH Zurich Prof. Dr. Jaboury Ghazoul

白虎.

Oxford University; Himalayan Wolf Project Geraldine Werhahn





"THEM!" JAMES WHITMORE · EDMUND GWENN · JOAN WELDON · JAMES ARNESS



A Saturn Films Presentation of a Cy Roth Production - Datributed by TOPAZ FILM CO.



STEVE TERRELL · GLORIA CASTILLO · FRANK GORSHIN · EXECUTIVE Produced by JAMES H. MICHOLSON and ROBERT GUENEY IL · Directed by Edmard L. CANN · Schweddy by Al Martin



THOMAS & HENRY























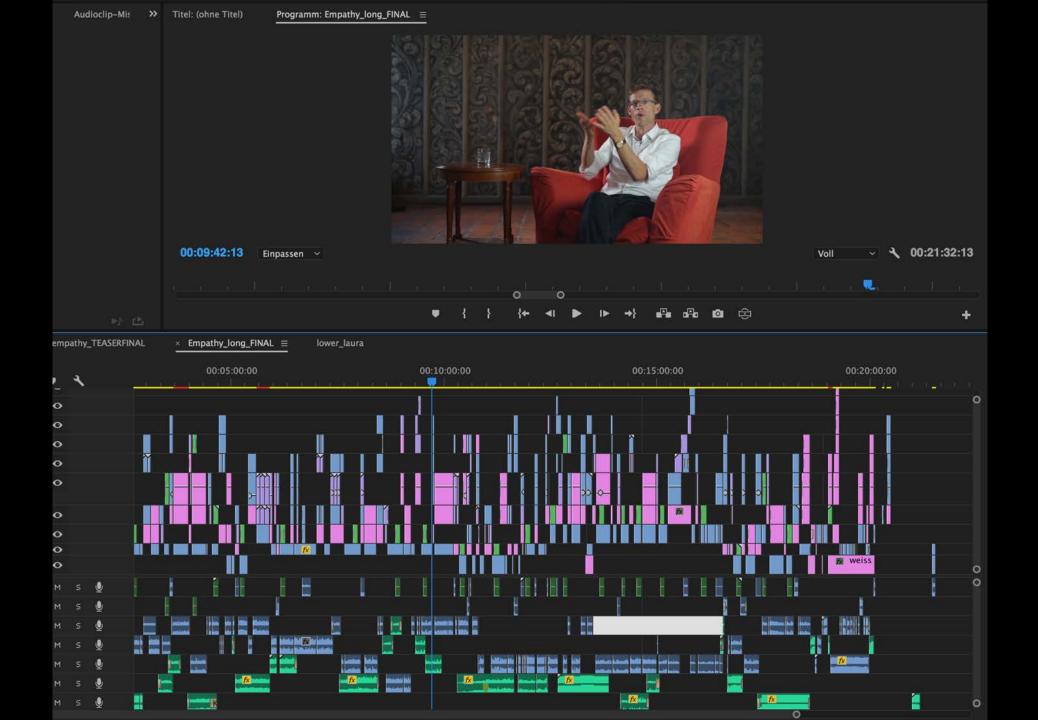
Rocus on the messeeneer outs. Be generouts. Kill your darings. Film making is never a oneman show

> If you do not want to collaborate, go run a marathon.

**COLLABORATIVE PROCESS DESIGN AND CO-AUTHORSHIP** 

Filmmaking is never a one-man-show. If you do not want to collaborate, write a book.





#### **Filmmakers**

Responsibility «good light» «Changing perspectives» Deligate tasks on set (every researcher can be a 'gaffer taper') Stay high-quality aware Be strikt on deadlines, decisions Avoid meaningless hyperaesthetics

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)