



SIGGRAPH 2022

VANCOUVER+ 8-11 AUG

MONDAY, AUGUST 8



SIGGRAPH 2022

VANCOUVER+ 8-11 AUG

MONDAY, AUGUST 8

MONITOR 1

8:00AM

Sex and Gender in the
Computer Graphics
Research Literature

MONITOR 2

8:00AM

Visual Effects
Pedagogy:
Anti-racism as both
visible and invisible
attributes

MONITOR 3

8:00AM

The Use of CG
in Japanese
Animation

MONITOR 4

8:00 – 8:45AM

Frontiers Talks

MONITOR 1

9:00 – 10:30AM

TALKS
Virtual Production

MONITOR 2

9:00AM – 12:00PM

COURSES
An Interactive
Introduction to
Computer Graphics
Techniques Using
WebGL



MONITOR 4

8:45 – 9:00AM

Roving Reporter
Daily Preview

MONITOR 1

10:45AM

A Minimalist Social
Robot Platform for
Promoting Positive
Behavior Change
Among Children



MONITOR 4

9:00 – 10:15AM

Opening Remarks/
Featured Speaker
Sougwen Chung
Seeing Double -
Bridging Dualities with
Relational Intelligence





SIGGRAPH 2022

VANCOUVER+ 8-11 AUG

MONDAY, AUGUST 8

MONITOR 1

11:30AM

Character Articulation
through Profile Curves



MONITOR 3

11:15AM – 12:15PM

Production Session #1
The VFX of Dune:
Bringing an Iconic
Story to Life

MONITOR 4

10:15 – 10:45AM

Roving Reporter

MONITOR 1

12:30PM

OSL Shaders in
RenderMan

MONITOR 2

12:15PM

Building the
Open Metaverse
Part 1 and 2

MONITOR 3

12:30PM

Differentiable
Cameras and Displays

MONITOR 4

10:45AM – 12:15PM

PANELS
Privacy, Safety and
Wellbeing: Solutions for
the Metaverse

MONITOR 1

2:15 – 5:15PM

COURSES
Rapid Prototyping of
XR Experiences

MONITOR 2

2:15PM

R2E2: Low-latency
Path Tracing of
Terabyte-scale Scenes
Using Thousands of
Cloud CPUs



MONITOR 4

12:15 – 2:15PM

Roving Reporter





MONITOR 2

3:15PM

Image Features
Influence Reaction
Time: A Learned
Probabilistic
Perceptual Model for
Saccade Latency

MONITOR 3

3:30PM

Neural Jacobian Fields

MONITOR 4

2:15 – 3:15PM

Featured Speaker
Pat/Ed –
Turing Award



MONITOR 2

4:00 – 5:30PM

TALKS
Surface Rendering
and Lighting

MONITOR 3

4:00PM

Instant Neural
Graphics
Primitives with a
Multiresolution
Hash Encoding

MONITOR 4

3:15 - 4:00PM

*Joining a portion of session
Already in Progress*

COURSES
(2:15-5:15 session)
Rapid Prototyping of
XR Experiences

MONITOR 1

5:30PM

Onward!
Creative Careers
in Animation,
Computer Graphics,
and Interactive
Techniques

MONITOR 2

5:45PM

The Champion: Neural
Render
Case Study

MONITOR 3

4:30PM

CLIPasso:
Semantically-Aware
Abstract Object Sketching

MONITOR 4

4:00 – 5:00PM

Production Session #2
We Don't Talk About
Bruno - An Encanto
Musical Sequence
Unveiled
(Walt Disney
Animation Studios)





MONITOR 2

6:45PM

A Fast Solution for
Cubic and Higher-
Order Polynomials

MONITOR 3

5:15PM

How We
Reconstructed the
Neighborhood
Destroyed by
the Tulsa Race
Massacre

MONITOR 4

5:30PM

Differentiable
Cameras and Displays

MONITOR 1

7:00PM

Lightyear:
Beyond the Infinite

MONITOR 2

7:30PM

Modular Scene
Filtering via the Pixar
Hydra 2.0 Architecture

MONITOR 3

6:30 – 8:45PM

Electronic Theater



MONITOR 2

8:15PM

Building an Illustrated
World in The Bad Guys





SIGGRAPH 2022

VANCOUVER+ 8-11 AUG

TUESDAY, AUGUST 9



SIGGRAPH 2022

VANCOUVER+ 8-11 AUG

TUESDAY, AUGUST 9

MONITOR 1

8:00AM

Holographic
Sign Language
Interpreters

MONITOR 2

8:00AM

A Fast Solution for
Cubic and Higher-
Order Polynomials

MONITOR 3

8:00AM

A Minimalist Social
Robot Platform for
Promoting Positive
Behavior Change
Among Children

MONITOR 4

8:00 – 8:45AM

Frontiers Talks

MONITOR 1

8:30AM

Below Victory:
Subsurface Radar
Advances for Creative
Digital Heritage



MONITOR 3

8:45AM

R2E2: Low-latency
Path Tracing of
Terabyte-scale Scenes
Using Thousands of
Cloud CPUs

MONITOR 4

8:45 – 9:00AM

Roving Reporter
Daily Preview

MONITOR 1

9:00 – 10:30AM

TALKS
Engaging FX &
Visualization

MONITOR 2

9:00 – 10:30AM

Experience
Presentation
Convergence
Chair: Yoon Chung
Han (*tentative*)

MONITOR 3

9:15AM

Image Features
Influence Reaction
Time: A Learned
Probabilistic
Perceptual Model for
Saccade Latency

MONITOR 4

9:00 – 10:00AM

Featured Speaker
Sarah Bond





MONITOR 3

9:45AM

Traditional
African Dances
Preservation Using
Deep Learning
Techniques



MONITOR 3

10:15AM

Three Stage
Drawing Transfer

MONITOR 4

10:15 – 10:45AM

Roving Reporter

MONITOR 1

10:45AM – 12:15PM

TALKS
Pipeline Potpourri

MONITOR 2

10:45AM – 12:15PM

DEI
Accelerate Talent and
Cultivate Diversity by a
Global Mentorship
Program

MONITOR 3

10:45AM

Dissecting My Data
Body: How to Know
Thyself as a Virtual
Reality in the
Digital Age

MONITOR 4

10:45AM – 12:15PM

COURSES
(Natasha) Advances
in Real-Time
Rendering in Games
(Live In Person
Part I)





MONITOR 2

12:30PM

Sex and Gender in the
Computer Graphics
Research Literature

MONITOR 3

11:15AM

In Search of the Plastic
Image:
a Media Archaeology
of Scan Processing

MONITOR 4

12:15 – 2:15PM

Roving Reporter

MONITOR 1

12:30PM

In Search of the
Plastic Image:
a Media Archaeology
of Scan Processing



MONITOR 3

11:45AM

Below Victory:
Subsurface Radar
Advances for Creative
Digital Heritage



MONITOR 1

1:00PM

The Champion: Neural
Render
Case Study

MONITOR 2

1:15PM

Visual Effects
Pedagogy:
Anti-racism as both
visible and invisible
attributes

MONITOR 3

12:30PM

OSL Shaders in
RenderMan





SIGGRAPH 2022

VANCOUVER+ 8-11 AUG

TUESDAY, AUGUST 9

MONITOR 1

2:15 – 5:15PM

COURSES

Dynamic Deformables:
Implementation and
Production
Practicalities
(Now With Code!)

MONITOR 2

2:15 – 3:45PM

Experience
Presentation
Emerging
Technologies

MONITOR 3

2:15PM

Holographic
Sign Language
Interpreters

MONITOR 4

2:15 – 3:15PM

Production Session
#3 - Netflix & Sony
Pictures Imageworks
Presents:
"The Sea Beast"
(Netflix & Sony)



MONITOR 3

2:45PM

Three Stage
Drawing Transfer

MONITOR 4

3:15 – 5:00 PM

Roving Reporter



MONITOR 3

3:45PM

Onward!
Creative Careers
in Animation,
Computer Graphics,
and Interactive
Techniques





SIGGRAPH 2022

VANCOUVER+ 8-11 AUG

TUESDAY, AUGUST 9

MONITOR 1

5:30PM

Lightyear:
Beyond the Infinite

MONITOR 2

4:00 – 5:45PM

TALKS
Face Capture and
Acquisition

MONITOR 3

5:15PM

The Champion:
Neural Render
Case Study

MONITOR 4

5:15PM

Building the
Open Metaverse
Part 1 and 2



MONITOR 2

6:00PM

Modular Scene
Filtering via the Pixar
Hydra 2.0 Architecture



MONITOR 3

6:30 – 8:45PM

Electronic Theater





MONITOR 1

7:00PM

Building the
Open Metaverse
Part 1 and 2

MONITOR 2

7:15PM

Traditional African
Dances Preservation
Using Deep Learning
Techniques

MONITOR 3

MONITOR 4

7:00PM

OSL Shaders in
RenderMan

MONITOR 2

7:45PM

Character Articulation
through Profile Curves





SIGGRAPH 2022

VANCOUVER+ 8-11 AUG

WEDNESDAY, AUGUST 10



SIGGRAPH 2022

VANCOUVER+ 8-11 AUG

WEDNESDAY, AUGUST 10

MONITOR 1

8:00AM

CLIPasso:
Semantically-
Aware Abstract
Object Sketching

MONITOR 2

8:00 – 8:45AM

Frontiers Talks

MONITOR 3

8:00AM

R2E2: Low-latency
Path Tracing of
Terabyte-scale Scenes
Using Thousands of
Cloud CPUs

MONITOR 4

8:00AM

Sex and Gender in the
Computer Graphics
Research Literature

MONITOR 1

8:30AM

Instant Neural
Graphics Primitives
with a Multiresolution
Hash Encoding

MONITOR 2

9:00 – 10:30AM

Award Talks

MONITOR 3

8:30AM

Holographic
Sign Language
Interpreters

MONITOR 4

8:45 - 9:00AM

Roving Reporter
Daily Preview

MONITOR 1

9:00AM – 12:00PM

COURSES
The Open Metaverse
Part 1



MONITOR 3

9:00AM

Image Features
Influence Reaction
Time: A Learned
Probabilistic
Perceptual Model for
Saccade Latency

MONITOR 4

9:00 - 10:00AM

Sponsored Exhibitor
Featured Speakers





MONITOR 1

12:15PM

OSL Shaders in
RenderMan

MONITOR 2

10:45AM – 12:15PM

TALKS
Applying Intelligence:
AI and ML

MONITOR 3

9:30AM

Lightyear:
Beyond the Infinite

MONITOR 4

10:00AM – 12:00PM

*Joining session
in progress*

COURSES
the Open Metaverse
Part 1



MONITOR 2

12:30PM

The Champion:
Neural Render
Case Study

MONITOR 3

11:15AM – 12:15PM

Production Session #4
Wētā FX Presents
The Batman
(Wētā FX)



MONITOR 3

12:30PM

Building the
Open Metaverse
Part 1 and 2

MONITOR 4

12:30 – 2:15PM

Roving Reporter





SIGGRAPH 2022

VANCOUVER+ 8-11 AUG

WEDNESDAY, AUGUST 10

MONITOR 1

2:15 – 5:00PM

COURSES

The Open Metaverse
Part 2

MONITOR 2

2:15 – 5:15PM

Experience
Presentation
Immersive Pavilion

MONITOR 3

2:30PM

Below Victory:
Subsurface Radar
Advances for Creative
Digital Heritage

MONITOR 4

2:15– 3:15PM

Sponsored Exhibitor
Featured Speakers



MONITOR 2

3:30PM

The Use of CG in
Japanese Animation

MONITOR 3

3:00PM

Building an Illustrated
World in The Bad Guys

MONITOR 4

3:15 – 5:00PM

Roving Reporter

MONITOR 1

5:15PM

Onward! Creative
Careers in Animation,
Computer Graphics,
and Interactive
Techniques



MONITOR 3

3:45PM

A Minimalist Social
Robot Platform for
Promoting Positive
Behavior Change
Among Children





MONITOR 3

4:30PM

Character Articulation
through Profile Curves



MONITOR 3

5:00PM

Neural Jacobian Fields

MONITOR 4

5:00 – 6:45PM

Real-Time Live!



MONITOR 3

5:30PM

Traditional
African Dances
Preservation
Using Deep
Learning Techniques





MONITOR 3

6:00PM

Dissecting My Data
Body: How to Know
Thyself as a
Virtual Reality in the
Digital Age





SIGGRAPH 2022

VANCOUVER+ 8-11 AUG

THURSDAY, AUGUST 11



MONITOR 1

8:00AM

In Search of the Plastic Image: a Media Archaeology of Scan Processing

MONITOR 2

8:00AM

Image Features Influence Reaction Time: A Learned Probabilistic Perceptual Model for Saccade Latency

MONITOR 3

8:00AM

R2E2: Low-latency Path Tracing of Terabyte-scale Scenes Using Thousands of Cloud CPUs

MONITOR 4

8:00 – 8:45AM

Frontiers Talks

MONITOR 1

8:30AM

Instant Neural Graphics Primitives with a Multiresolution Hash Encoding

MONITOR 2

8:30AM

CLIPasso: Semantically-Aware Abstract Object Sketching

MONITOR 3

8:30AM

Holographic Sign Language Interpreters

MONITOR 4

8:45 - 9:00AM

Roving Reporter Daily Preview

MONITOR 1

9:00 – 10:30AM

Real-Time Live! Contributor Panel

MONITOR 2

9:00AM – 12:00PM

COURSES
Computational Design of Robots

MONITOR 3

9:00AM

Below Victory: Subsurface Radar Advances for Creative Digital Heritage

MONITOR 4

9:00 – 10:00AM

Sponsored Exhibitor
Featured Speakers
James Knight
The Collision of Technology and Art





MONITOR 1

10:45AM – 12:15PM

TALKS

LookDev and
Procedural Patchwork



MONITOR 3

10:15AM

Visual Effects
Pedagogy:
Anti-racism as both
visible and invisible
attributes

MONITOR 4

10:00 – 11:00AM

Roving Reporter

MONITOR 1

12:30PM

Lightyear:
Beyond the Infinite

MONITOR 2

12:15PM

Three Stage
Drawing Transfer

MONITOR 3

11:00AM

Traditional
African Dances
Preservation Using
Deep Learning
Techniques

MONITOR 4

11:00AM – 12:00PM

Production Session #5
Filmmaking Fever
Dream: Crafting
"Turning Red"
(Pixar Animation
Studio)



MONITOR 2

12:45PM

The Champion:
Neural Render
Case Study

MONITOR 3

11:30AM

Neural Jacobian Fields

MONITOR 4

12:00 – 2:15PM

Roving Reporter
Final Content Block





MONITOR 1

2:15 - 5:15PM

Natasha
Advances in
Real-Time Rendering in
Games
(Live In Person
Part II)



MONITOR 2

2:00PM

Visual Effects
Pedagogy:
Anti-racism as both
visible and invisible
attributes

MONITOR 3

12:15PM

CLIPasso:
Semantically-Aware
Abstract Object
Sketching



MONITOR 3

12:45PM

Differentiable
Cameras and Displays

MONITOR 4

2:15 – 3:45PM

Featured Speaker:
Ime Archibong &
Closing Session



MONITOR 2

2:45PM

How We
Reconstructed the
Neighborhood
Destroyed by
the Tulsa Race
Massacre





MONITOR 3

3:45PM

Sex and Gender in the
Computer Graphics
Research Literature



MONITOR 2

4:00 – 5:30PM

TALKS
Simulation Sampler



MONITOR 4

4:00PM

Modular Scene
Filtering via the Pixar
Hydra 2.0 Architecture



MONITOR 3

4:30PM

A Fast Solution for
Cubic and Higher-
Order Polynomials

MONITOR 4

4:45PM

Dissecting My Data
Body: How to Know
Thyself as a Virtual
Reality in the
Digital Age

