

#### NVIDIA DEEP LEARNING INSTITUTE

Education and Training Solutions to Solve the World's Most Challenging Problems

Over 300,000 Trained

Over

14,000

Teaching Kits Downloaded

Over

3,000

Universities with Teaching Kits

83 Countries

Over

40

Hands-on Courses Available

480
NVIDIA-certified Instructors

50+ Fortune 500 Organizations 5 Languages



#### RICH CONTENT PORTFOLIO

Fundamental and Advanced Hands-on Training in Key Technologies and Application Domains



See DLI Content catalog for full course listing. Includes instructor-led workshops and self-paced online courses.



## WHY COLLABORATE WITH NVIDIA ON AI EDUCATION?

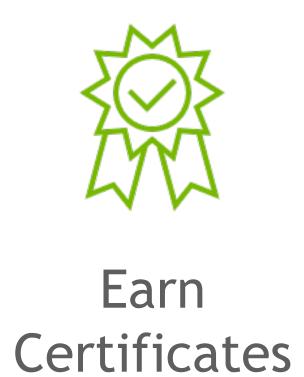


Expertise











Examples





Reduce Time to Production



#### DLI PROGRAMS FOR EDUCATORS

How to Bring AI and GPU Computing into the Classroom

Three primary programs to support educators with their own development and teaching:

- DLI Faculty Development Workshops
- DLI Teaching Kits
- DLI University Ambassador Program

YouTube Video: Furthering the Frontiers of Education

Jay Urbain, Professor, Milwaukee School of Engineering (MSOE)

Hundreds of universities using the programs around the world, including:























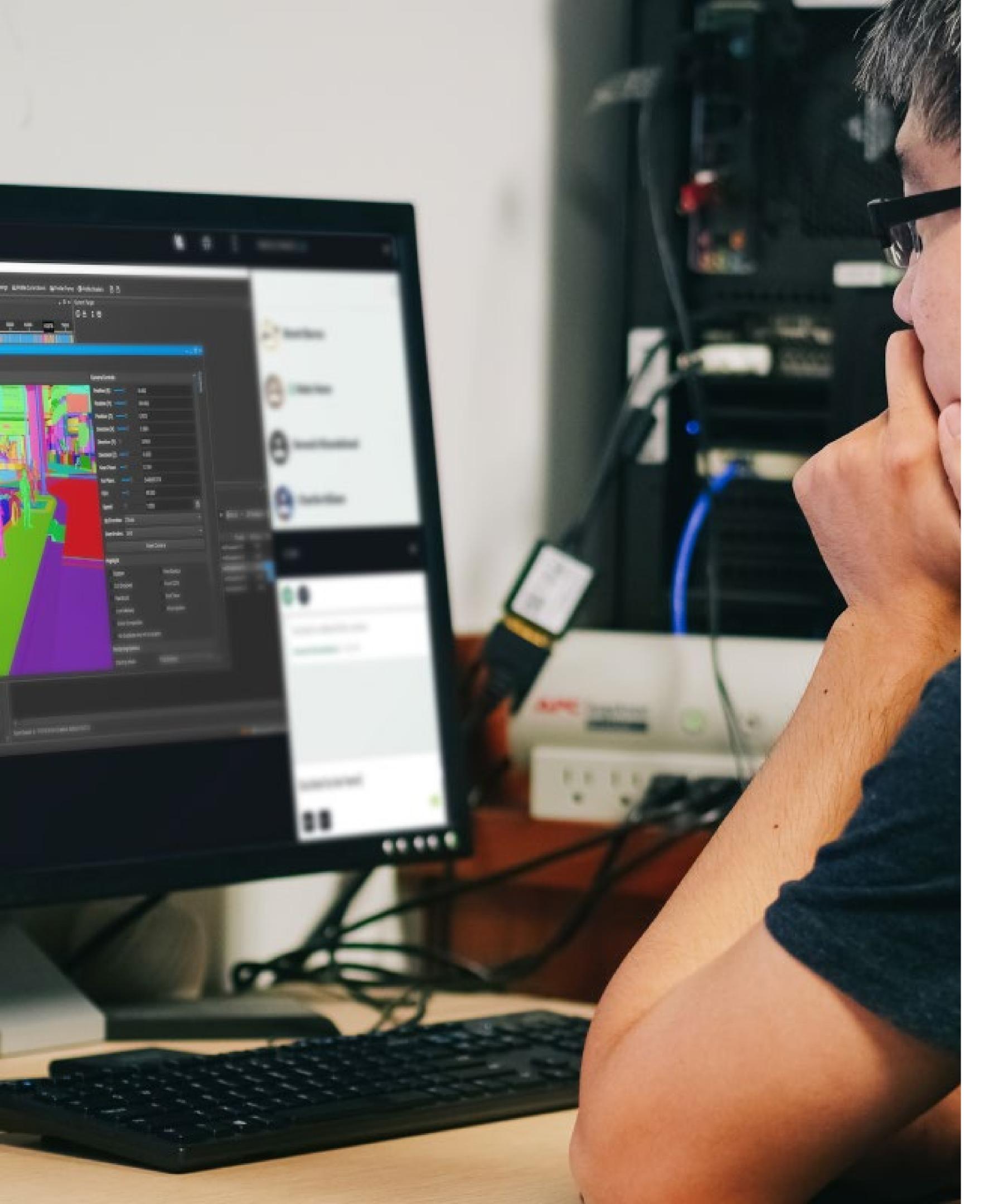












## FACULTY DEVELOPMENT

Free Training through DLI for University Faculty

Register here for the following workshops:

- Fundamentals of Deep Learning
  - January 20th
- Fundamentals of Accelerated Computing with CUDA C/C++
  - January 20th
- Fundamentals of Accelerated Computing with CUDA Python
  - January 20th
- Fundamentals of Accelerated Data Science
  - January 26<sup>th</sup>

Also free to register for University faculty:

- Building Transformer-Based NLP Applications
  - December 13th



#### DLI TEACHING KITS

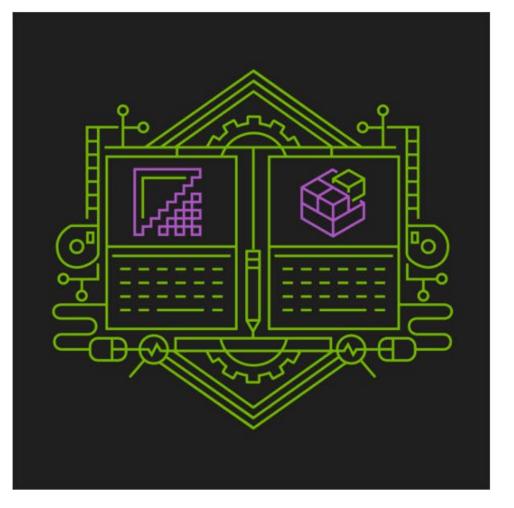
Lower the barrier of incorporating AI and GPU computing in coursework

#### Request teaching kit access

Developer Blog: Why University Educators Are Pulling NVIDIA Teaching Kits into Their Classrooms

On-Demand Webinar: Bringing GPU Computing to Classroom

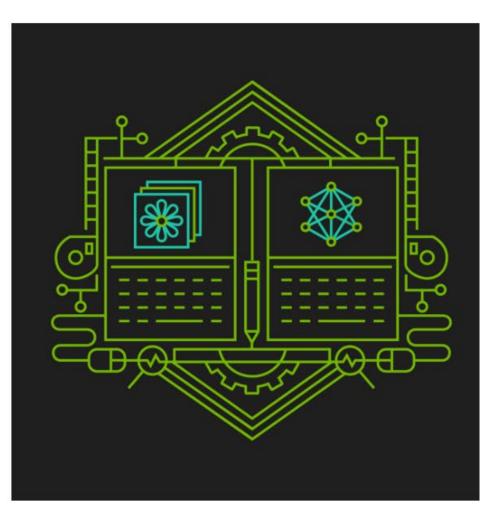
YouTube Video: Enhancing Curricula with NVIDIA Teaching Kits



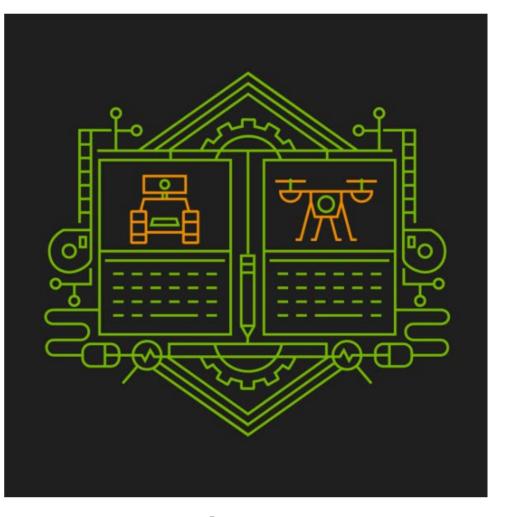




Data Science



Deep Learning

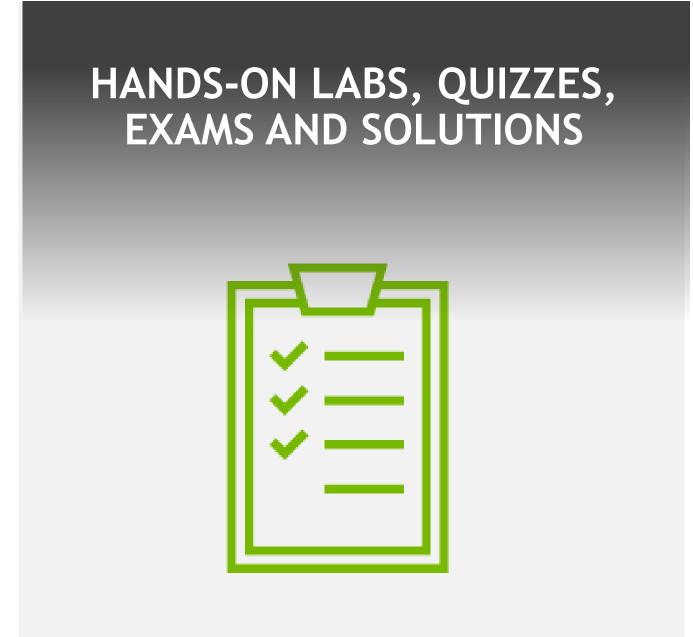


Robotics

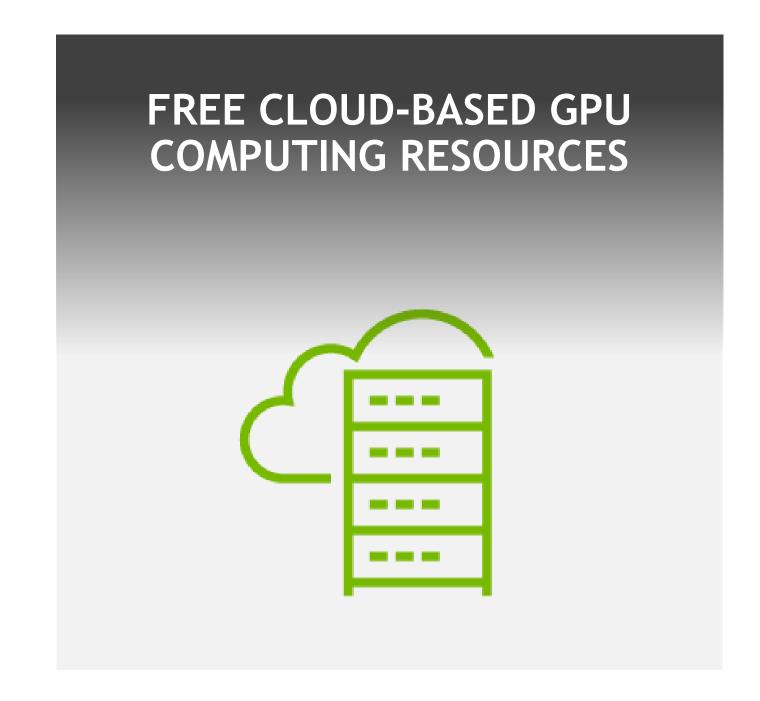


Graphics and Omniverse

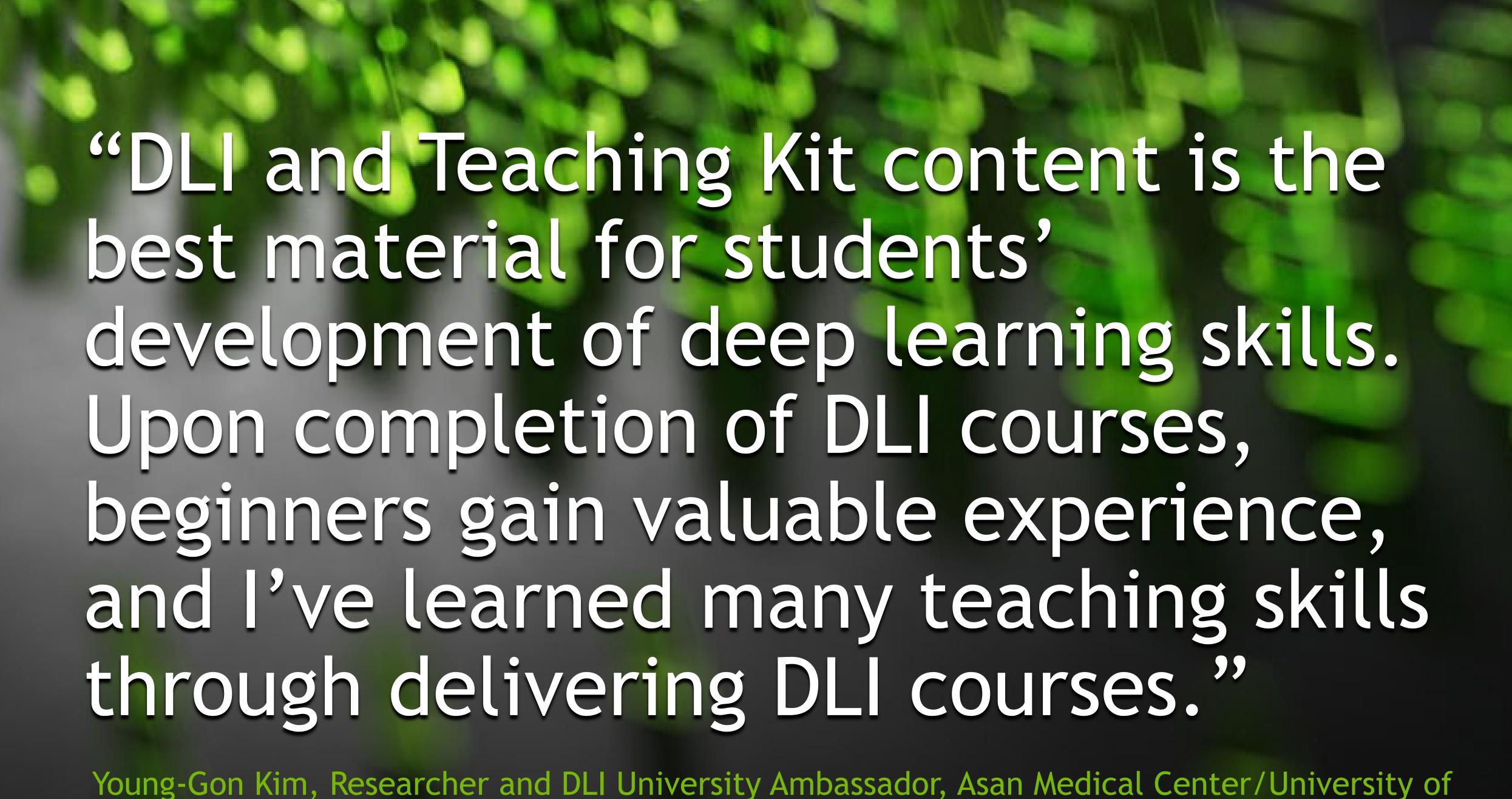












Ulsan, South Korea.

#### DLI UNIVERSITY AMBASSADOR PROGRAM

Become certified to deliver DLI instructor-led workshops to any academic audience



- Available globally
- Free access to proven, ready-made content and online training platform for DLI workshops
- Workshop content can be fit into the schedule and audience as preferred. For example: workshops can be delivered at academic conferences, to research teams, as part of an existing course, or for professional societies, student organizations, or faculty in other disciplines, onsite or online.



- Promotion of the workshops, research activities, academic conference presentations, etc
- Instructor certificates
- Networking with peers
- NVIDIA contributions to proposals for DLI at conferences

# FINANCIAL SUPPORT

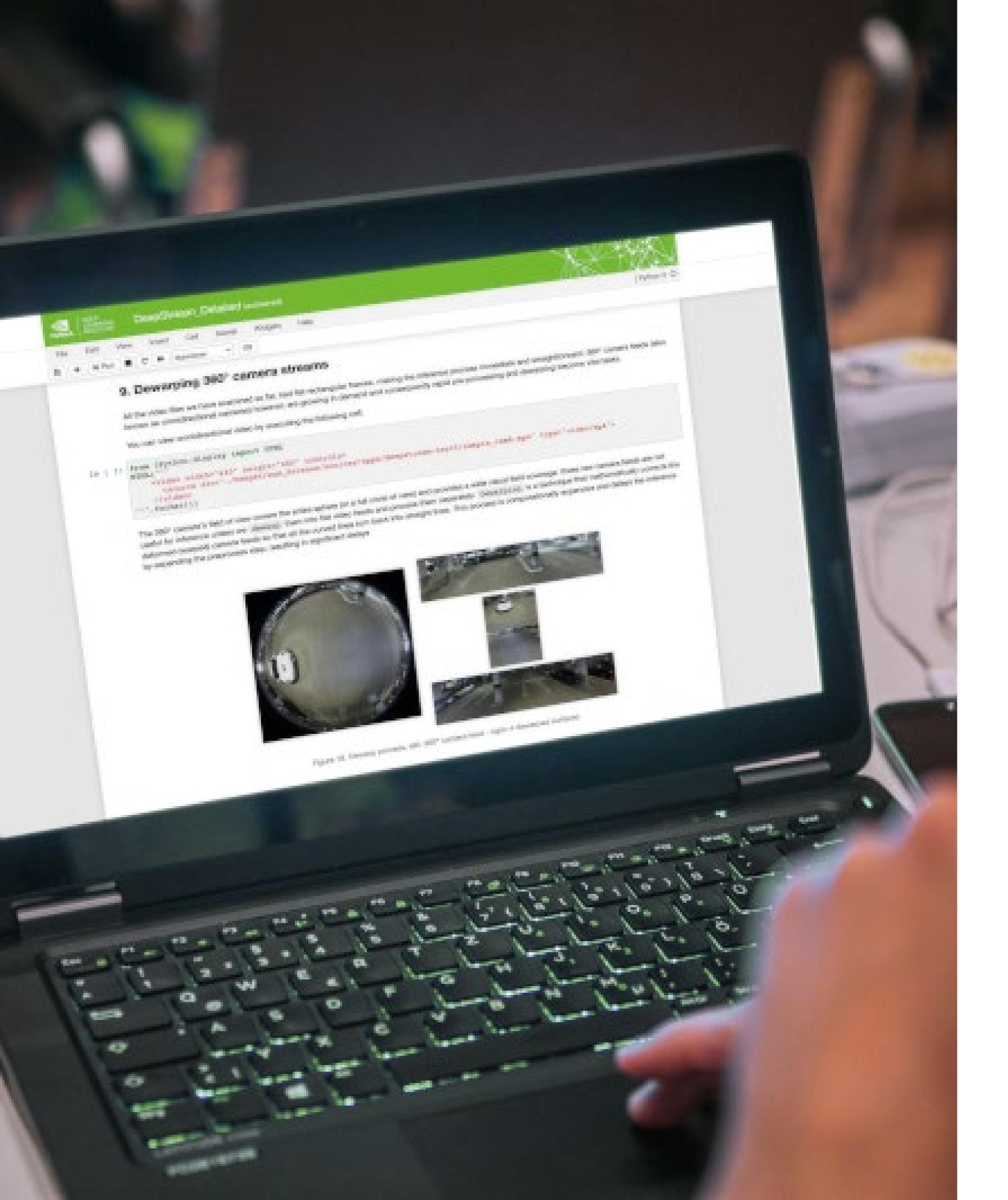
- Expense reimbursement (i.e. catering and/or travel) up to USD\$500 per event
- Recognition in a tiering system for highly active Ambassadors including monetary awards
- Paid opportunities to support NVIDIA's training activities
- Opportunity to sell training to industry



- Regular free workshops for skills development
- Access to the Ambassador Workshop Event Kit "train-the-trainer" content and workshop promo assets
- Newsletters with updates from DLI
- Early access to new DLI Teaching Kits and free cloud-based GPU platforms for students in your curriculum courses

Apply here





#### HOW TO LEARN MORE

Courses for Everybody

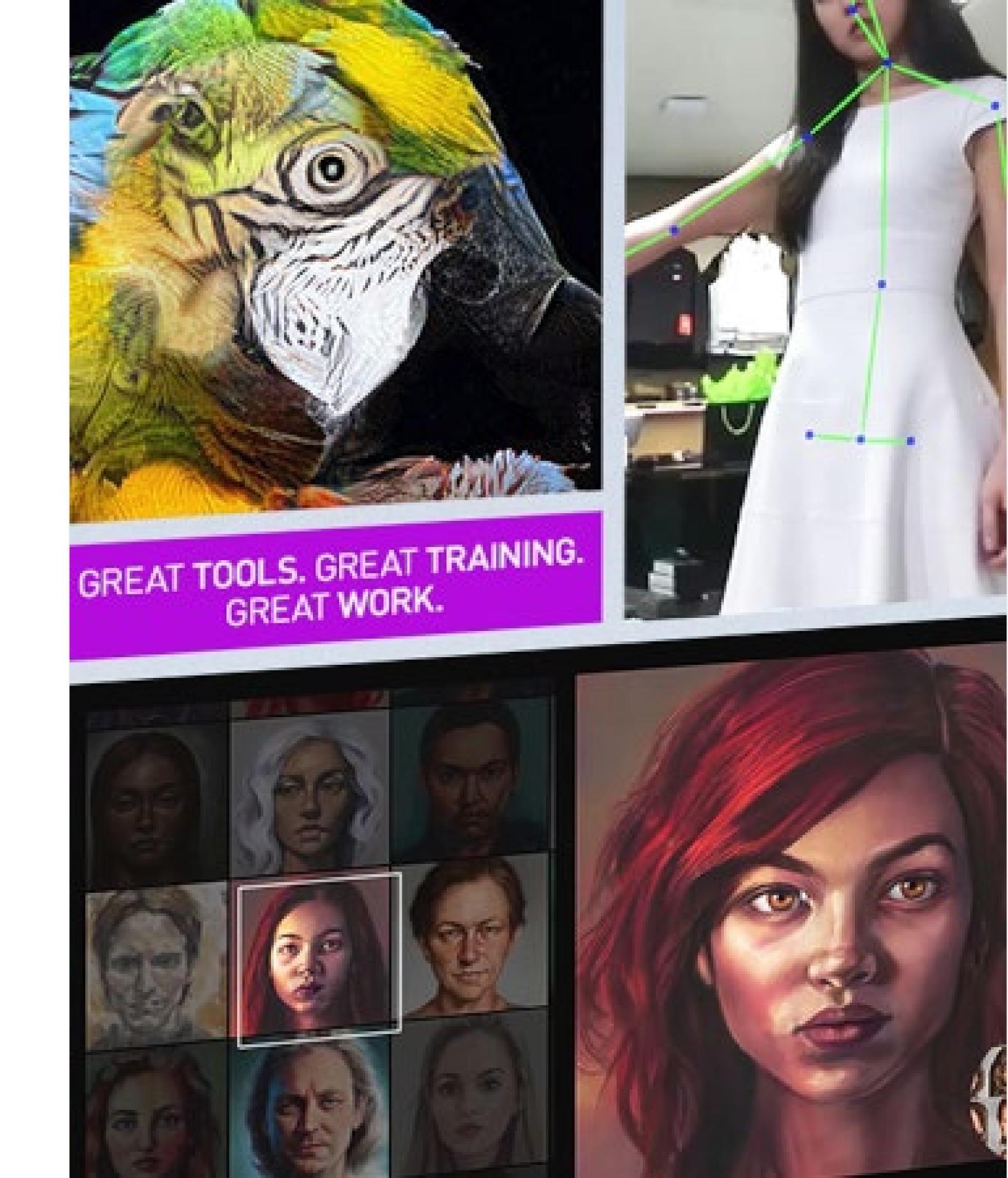
- Free short self-paced courses:
   <u>Building a Brain in 10 Minutes</u>
   <u>Speed Up DataFrame Operations With RAPIDS cuDF</u>
   An Even Easier Introduction to CUDA
- Jetson Al Courses and Certifications for educators teaching robotics and Al using NVIDIA® Jetson™, this certification recognizes competency in teaching Al on Jetson.
- Getting Started with Universal Scene Description for Collaborative 3D Workflows - for Graphics and Simulation
- Introduction to AI in the Data Center for IT Managers



#### HOW TO LEARN MORE

Links to Resources to Help You

- A book titled "Learning Deep Learning" by Magnus Ekman, and other recommended books
- Attend GTC conferences
- <u>Join NVIDIA Developer Program</u>. To ensure you have the best resources to do your life's work, we've created an online space devoted to your needs, with access to free SDKs, technical documentation, peer and domain expert help, information on the right hardware to tackle the biggest challenges, and <u>NVIDIA NGC</u>.
- NVIDIA AI Essentials Learning Series
- Explore the extensive catalog of sessions, podcasts, demos, research posters and more on <a href="NVIDIA On Demand">NVIDIA On Demand</a>



#### OTHER WAYS WE SUPPORT YOU

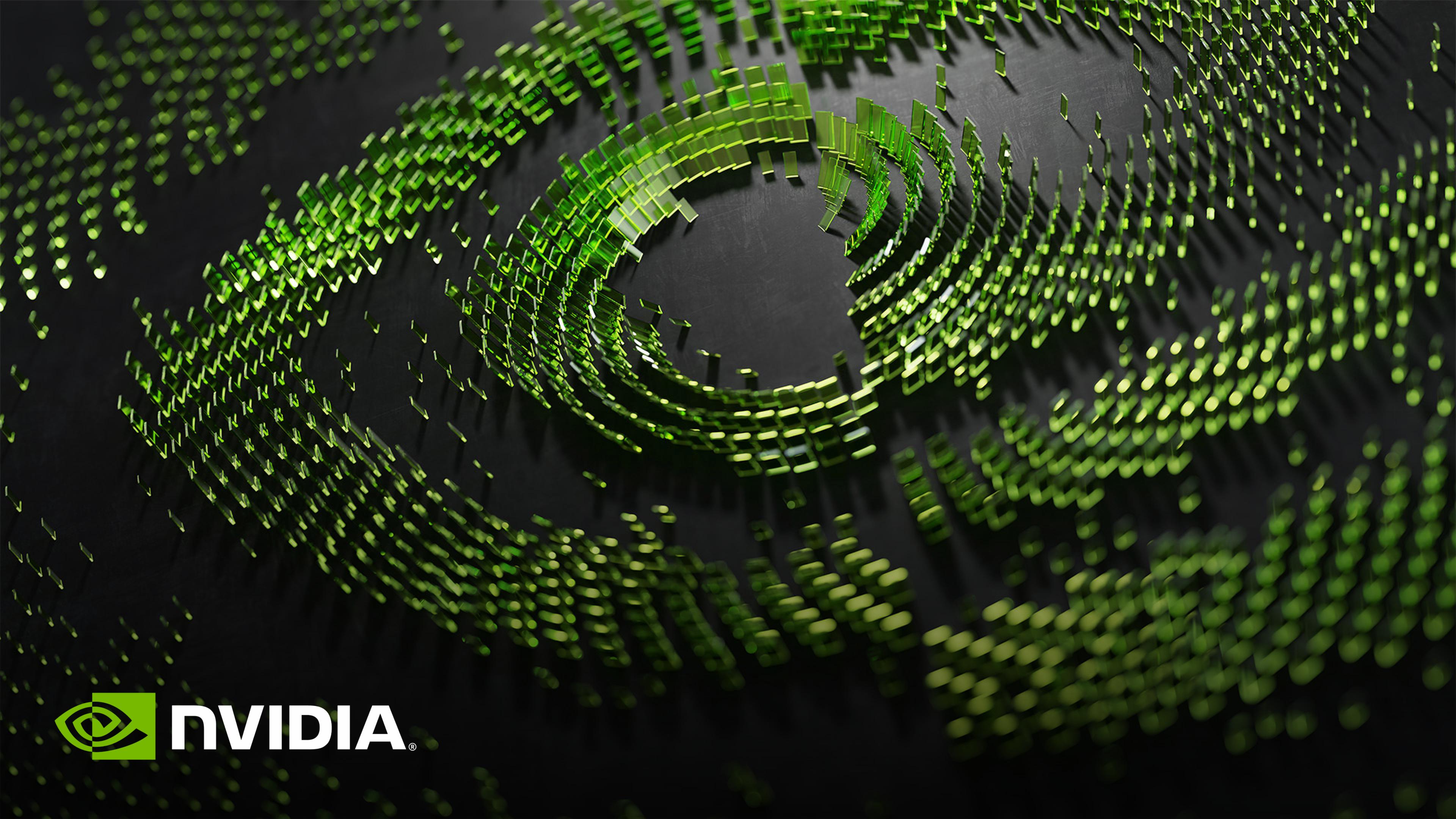
Hardware Grants, Recruiting, Start-Up Program

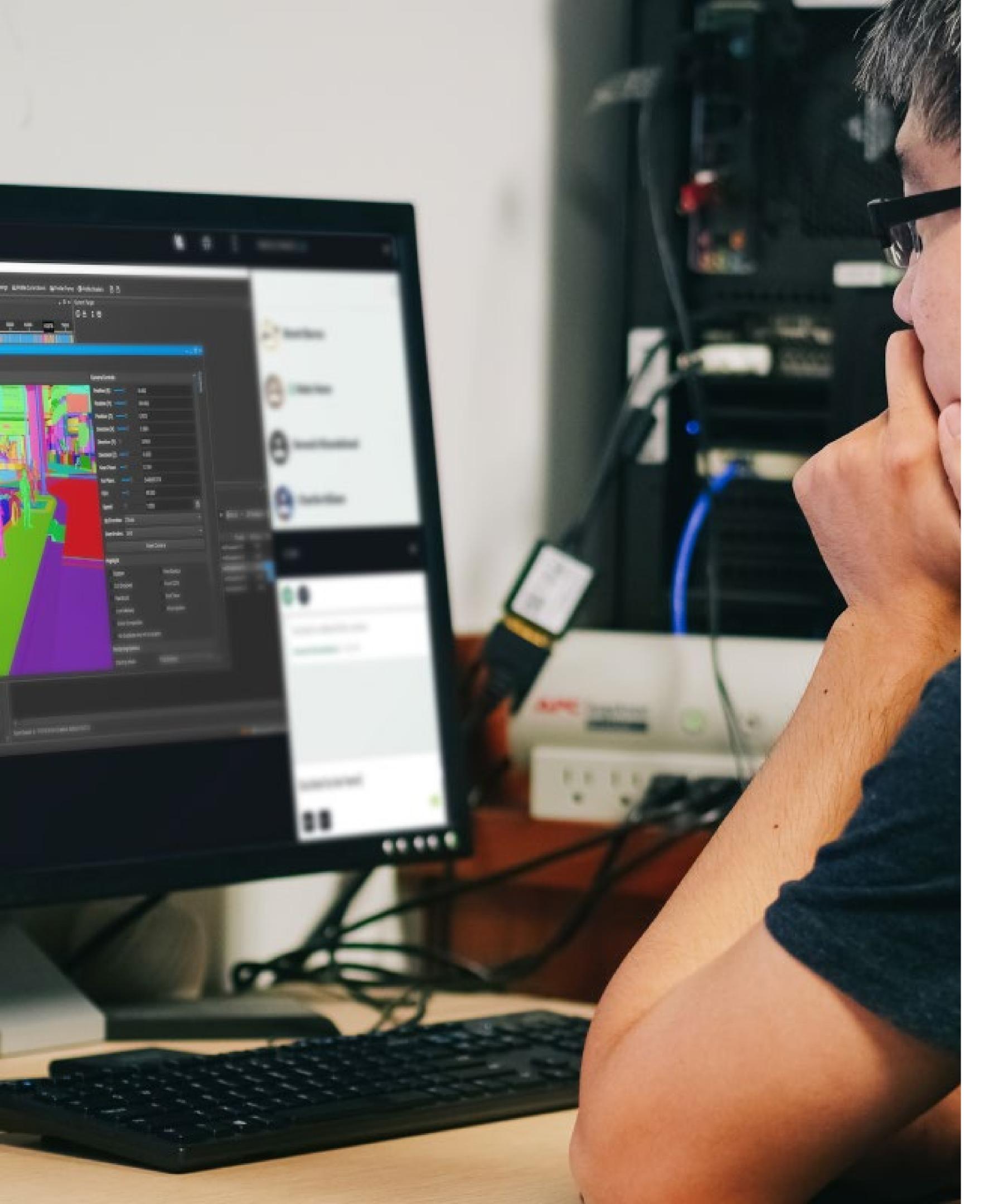
- Hardware grant program
- Jetson Nano 2 GB Developer Kit grant program
- Graduate Fellowships
- University Recruiting
- NVIDIA Inception Program is an acceleration platform for AI, data science and HPC startups, providing critical go-to-market support, expertise, and technology.

To learn more about NVIDIA support for developers in Higher Education and Research visit <a href="https://developer.nvidia.com/higher-education-and-research">https://developer.nvidia.com/higher-education-and-research</a>

For information around NVIDIA product offerings for Higher Education and Research visit <a href="https://www.nvidia.com/en-gb/industries/higher-education-research/">https://www.nvidia.com/en-gb/industries/higher-education-research/</a>







#### FACULTY DEVELOPMENT

Training through DLI

Free DLI Faculty Development workshops offer opportunity to learn state of the art Deep Learning, Data Science and Accelerated Computing, and how to integrate this content as hands-on training in the classroom complemented with theory when combined with Teaching Kits. Workshops are major step to optional instructor certification.

Regular schedule of global faculty development workshops will start in 2022. Taught by existing experienced DLI University Ambassadors the attendees have the capability of interacting with peers and learning new skills to help them to become DLI University Ambassadors themselves.



#### DLI UNIVERSITY AMBASSADOR PROGRAM

DLI awards qualified educators as certified DLI Ambassadors, enabling them to teach free DLI content exclusively to university students and staff.

With a variety of courses to become certified in, this opens need opportunities to bring further topics such as Natural Language Processing, Data Engineering and advanced CUDA into the classroom. Workshops can be split over several days and delivered onsite or in a virtual classroom open to attendees from other universities. All workshops have assessments and student certificates.

Candidates should have relevant teaching and research/work experience.

Ambassador Spotlight: Ray Ptucha

On-Demand Webinar: How to become an Ambassador for Deep

Learning



#### TEACHING KIT BENEFITS FOR EDUCATORS

Removing Barriers to Teaching New Technologies



Developing new teaching materials like lecture slides and hands-on labs can take a significant amount of time for busy faculty. Teaching Kits provide a variety of source-level teaching materials—enough content to teach at least a full semester course—significantly cutting down the time required to develop course content.

# REDUCES COST AND INFRASTRUCTURE NEEDS



New teaching resources can have an associated monetary cost. Funding barriers can also be related to a school's infrastructure or geography. Teaching Kits provide educators and their students free access to GPUs in the cloud in two ways. For core programming labs, NVIDIA partners with Amazon's AWS Educate program to offer educators and their students extended cloud credits leveraging a variety of GPU instances. Additionally, Teaching Kits provide free access to NVIDIA's DLI online courses and student certificates. Resources such as these can help address both funding and infrastructure barriers to teaching.

## ADDRESSES ACADEMIC THEORY AND FUNDAMENTALS



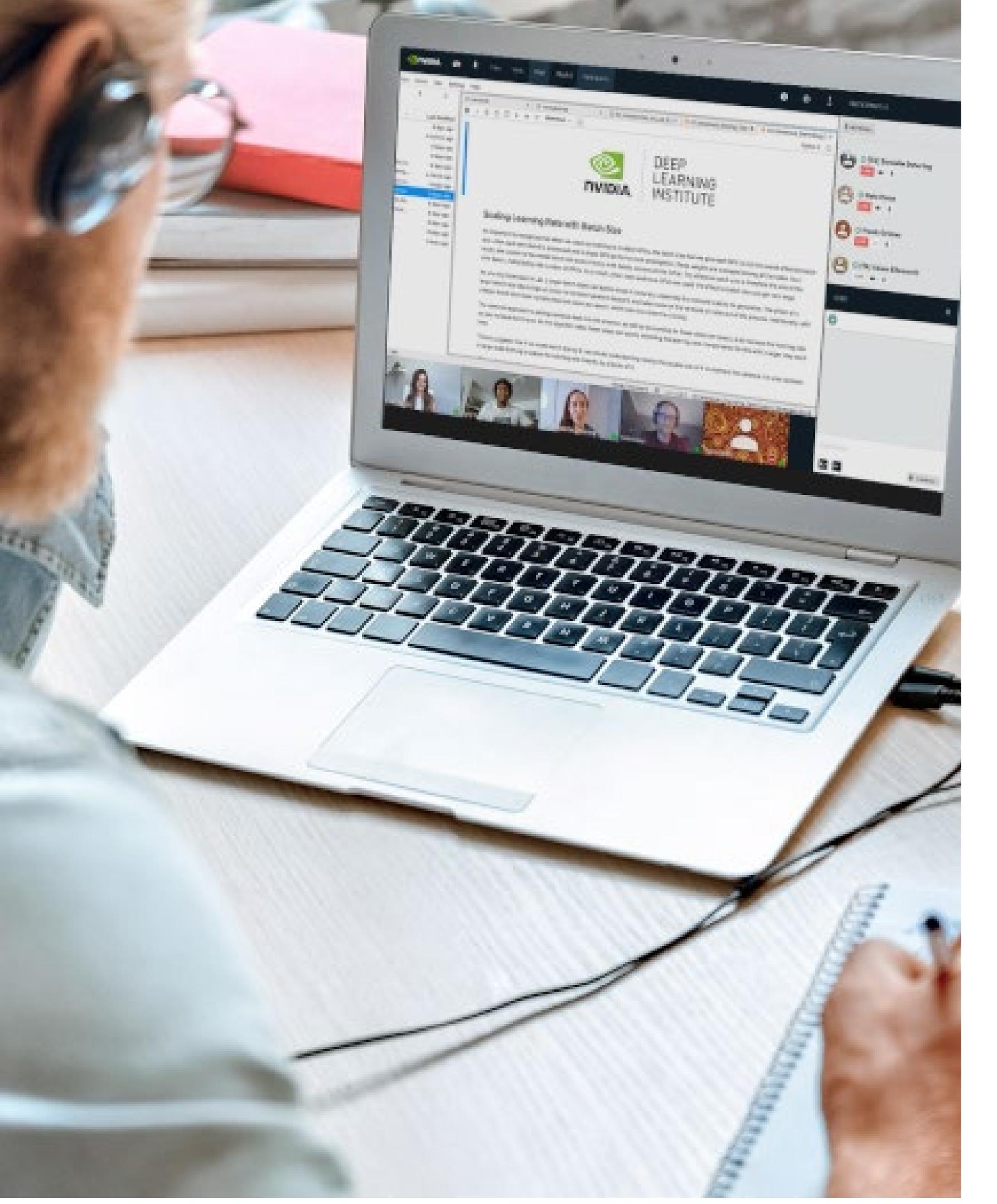
Many tech companies only provide applied industry and professsional training material for universities to teach with, which usually lacks fundamentals and academic theory. Such material can be difficult to adapt to academic environments. NVIDIA co-develops Teaching Kits with academic partners to combine the latest industry trends, GPU architectures, and applications with fundamental theory and pedagogy from academia. This results in the highest quality teaching material. Each Teaching Kit addresses a different course type and includes update releases over time with new features and content.

#### SINGULAR, COMPREHENSIVE OFFERING BACKED BY INDUSTRY AND ACADEMIA



Another barrier for educators is experience with new content—not just the expertise required to teach the technology, but also the experience needed to select specific platforms and resources that are best for teaching. Teaching Kits provide a straightforward and singular, comprehensive offering backed by both industry and academia. Other program offerings help address experience barriers, including support from NVIDIA and NVIDIA's educator communities, roundtable and panel discussions, a webbased portal to the latest Teaching Kits, getting started guides, webinars, email updates, and an open channel to provide feedback and ask questions.





#### TRAINING FOR EVERYBODY

Upskilling with NVIDIA Subject Matter Experts

Training through NVIDIA certified instructors and subject matter experts is also available for university researchers, students and staff, onsite or remotely in a virtual classroom. A full overview of all our training content is available in the <u>DLI Content catalog</u>

General public workshops are offered throughout the year, full schedule is available on <u>our website</u>. A discount is available for attendees from Higher Education Institutions.

GTC conference also includes wide training opportunities.

DLI also provides private workshops for universities through our certified instructors.

For a consultation on opportunities reach out to Mrs. Marjut Dieringer, <a href="mailto:mdieringer@nvidia.com">mdieringer@nvidia.com</a> or contact <a href="mailto:nvdli@nvidia.com">nvdli@nvidia.com</a>

