DEEP LEARNING INSTITUTE (DLI) AND UNIVERSITY AMBASSADOR PROGRAM

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Tuesday Nov. 19th, 10:30 - 11 AM
NVIDIA Theater - Supercomputing Conference 2019 - Denver, Colorado
Training developers, data scientists, and researchers how to solve the world’s most challenging problems
Case Studies

FOR EVERYONE

Blogs, Videos, Podcasts

FOR DEVELOPERS, DATA SCIENTISTS, RESEARCHERS

Self-Paced Online Training

Instructor-Led Workshops

Third Party Courses

Technical Blogs

By Predicting Seizures, AI Could Be a Life-Changer for People with Epilepsy

I was diagnosed with epilepsy in my teens. The daily barbiturate I was prescribed to prevent seizures made... Read article »
NVIDIA DEEP LEARNING INSTITUTE

Hands-on, self-paced and instructor-led training and certification in deep learning and accelerated computing for developers

Take self-paced training online, view upcoming workshops, and learn about the University Ambassador Program at www.nvidia.com/dli

Request instructor-led workshops onsite at your organization by visiting www.nvidia.com/requestdli

Deep Learning Fundamentals
Accelerated Computing Fundamentals
AI for Autonomous Vehicles
AI for Digital Content Creation and Game Development
AI for Finance
AI for Healthcare Image Analysis
AI for Healthcare Genomics
AI for Intelligent Video Analytics
AI for Robotics

Caffe2
Microsoft Cognitive Toolkit
mxnet
TensorFlow
PYTORCH
Keras
Theano
DEEP LEARNING INSTITUTE

University Ambassador Program

Preparing today’s students and researchers for tomorrow’s AI computing challenges

Want to bring DLI to your campus?

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

DLI University Ambassadorship is an additional status on top of DLI instructor certification with additional benefits.

Candidates should have relevant teaching and research/project experience, and most Ambassador invitations are sent to members of the NVIDIA Teaching Kits program: developer.nvidia.com/teaching-kits
WHY BECOME A DLI AMBASSADOR?

DLI WORKSHOP AND CONTENT ENABLEMENT
- Bring free, world-class DL training to academic communities and conferences (USD$500 value per student)
- Proven, ready-made content and online training platform
- Off-set for event expenses, catering, and/or travel expenses (up to USD$500 per event)
- Access to workshop best practices and promotional assets via Ambassador Event Kit

TRAINING AND INSTRUCTOR CERTIFICATION AWARD
- Free DLI Instructor Certification (USD$1000 value)
- Recognized and certified as an applied DL expert by NVIDIA
- Formal inclusion in DLI University Ambassador and Certified Instructor programs

OTHER TEACHING RESOURCES
- Early access to DLI content, DLI Teaching Kits, and other cloud-based platforms complement your curriculum courses

NEW! OPPORTUNITY TO RUN PAID DLI TRAINING FOR INDUSTRY
- Ambassadors can purchase DLI workshops from NVIDIA at a discount and resell to industry and professional continuing education customers
INSTITUTIONS WITH AMBASSADORS

DLI University Ambassadors come from hundreds of institutions worldwide (some shown below)
NVIDIA/DLI TEACHING KITS
Free Course Materials for Qualified University Educators

Downloadable, semester-long university curriculum course material for verified university faculty and TAs:
- Lecture slides
- Lecture videos
- Hands-on labs/solutions
- Larger coding projects/solutions
- Quiz/exam questions/solutions
- Text and e-books
- DLI online courses/electives codes
- Syllabus (with suggested DLI online content)

Different kits for different courses
- Machine/Deep Learning (NYU/Yann LeCun)
- Accelerated/Parallel Computing (CUDA) (UIUC/Wen-Mei Hwu)
- Robotics (CalPoly/John Seng)
- Future (Data Science/RAPIDS, OpenACC, Domain Sciences, etc.)

developer.nvidia.com/teaching-kits
TEXAS A&M UNIVERSITY

Opened in 1876

Primary Location: College Station, Texas

- Branch Campuses: Galveston, Texas and Doha, Qatar
- College Station Campus: 5,200 acres
- Colors: Maroon & White
- Nickname: Aggies
- Athletics: NCAA Division I in Southeastern Conference (SEC)

- Total Enrollment (Fall 2018): 69,367
- Undergraduates: 54,369
- First-generation Students: 25%
- College Station Campus: 64,126
- Student Organizations: 1,100+
- Graduate & Professional: 14,998
- Former Students: about 588,000+
- Corps of Cadets*: 2,200+

*Commissions more officers than any institution other than the nation’s service academies

image credit: https://www.tamu.edu/about/at-a-glance.html
**COLLABORATIVE EFFORT TO PROMOTE DATA SCIENCE AND AI TECHNOLOGIES**

The Texas A&M Institute of Data Science pursues new approaches to *Data Science research, education, operations and partnership*. These approaches cross college boundaries to connect elements of Data Science from engineering, technology, science and the humanities, and inform wider social challenges.

For 100 years, the TEES has performed groundbreaking *engineering research and developed technology to address state and national problems*. The research activities focus on relevant needs in areas including energy systems and services, national security, healthcare, materials and manufacturing, information systems and sensors, industry outreach, and education and training.

Since 1989, the High Performance Research Computing (HPRC) group, formerly the Supercomputing Facility, has been dedicated to be a resource for research and discovery at Texas A&M University. HPRC's mission is to *enable research and discoveries that advance sciences and technologies*.

<table>
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<tr>
<th>Data Science Research, Education, Operations, and Partnership</th>
<th>Engineering Research and Applications</th>
<th>HPC Systems and Enablement</th>
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Training developers, data scientists, and researchers how to solve the world’s most challenging problems.
The DLI workshops have been organized as sponsored events by the NVIDIA Deep Learning Institute (DLI), the Texas A&M Institute of Data Science, the Texas A&M High Performance Research Computing, and the Texas Engineering Experiment Station.

Publicized through bulk mailing lists and Eventbrite.

Mostly hosted on Saturdays.
A STEP-BY-STEP GUIDE TO HOST A DLI WORKSHOP

* Assuming a Certified DLI Instructor is available

**When & Where?**

- **Step 1**: -30+ Days
  Submit a Workshop Request to DLI
  You will need to fill in the time as well as the expected number of attendees.

**Advertise the Workshop**

- **Step 2**: -15+ Days
  After your request is approved, you can start creating the registration page and start advertising via social media or bulk mailing list.

**Order Food and Encourage the Usage of Water Bottles**

- **Step 4**: -1 Day
  You will need to call to order food a day before the workshop for large orders.

**Look for Teaching Assistants**

- **Step 5**: +1 Day
  You are supposed to have one TA per 20 attendees. It is never too early to start looking for TAs to help you with both the logistics and workshop.

**Submit Reimbursement Request**

- **Step 6**: +1 Day
  Up to $500 per event.

**Run the Workshop and Collect Feedbacks**

- **Step 7**: +1 Day
  Before the workshop, don’t forget to send a reminder to all the attendees about 3 things: alarm, laptop, and water bottle. Remember to collect feedbacks.
BEYOND THE DLI UNIVERSITY AMBASSADOR PROGRAM

New Undergraduate Courses
- ENGR 489: Special Topics in High Performance Computing
- ECEN 489: Special Topics: Computational Data Science
- ENGR 491: AggiE_Challenge: Power-aware High Performance Computing Technologies In Addressing Real World Engineering Applications

Webinars
- TAMIDS Data Science Webinar Series

Workshops
- HPRC/TAMIDS/TEES Bring Your Own Data/Code Workshops

Short Courses
- HPRC Short Courses for HPC users

Summer Camps
- HPRC Summer Computing Camps for students starting 9th grade through graduating seniors

Student Cluster Competition
- ASC18 - ASC Student Supercomputer Challenge 2018
- SCC18 - 2018 Student Cluster Competition

The educational materials from NVIDIA/DLI have been integrated into almost all these courses and events!