# Advanced Topics in Deep Learning (Master)

every

(in German: Advanced Topics in Deep Learning (Master) )

## Module-ID: FIN-INF-120496

| Abbreviation | Credit Points | Semester | Term | Duration | Language | Level |
|---|---|---|---|---|---|---|
| ATDL | 6 | every | starting at 1. | 1 Semester | english | Master |

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|---|---|
| **Link:** | LSF |
| **Limited accessability:** | |
| **Responsibility:** | Sebastian Stober |
| **Lecturer:** | Sebastian Stober |
| **Classes:** | *Advanced Topics in Deep Learning* |
| **Applicability in curriculum:** | - M.Sc. INF: Informatik<br>- M.Sc. INGINF: Informatik<br>- M.Sc. WIF: Informatik<br>- M.Sc. DKE: Learning Methods and Models for Data Science<br>- M.Sc. DKE: Data Processing for Data Science<br>- M.Sc. DKE: Applied Data Science<br>- M.Sc. DE: Methoden der Informatik<br>- M.Sc. VC: Computer Science |

**Intended learning outcomes:**
Students ...

- can read and analyze current research papers
- apply deep learning to an application domain

- gain in-depth knowledge In the application domain
- learn to work efficiently in a team on scientific problems
- learn to work on a server infrastructure
- present scientific results in a written and oral form

**Content:**

- Current topics from deep learning research
- Create domain-specific deep learning pipelines
- The application domain will be announced beforehand

**Workload:**

- 30h in person
- 150h self-study

| Pre-examination requirements: | Type of examination: | Teaching method / lecture hours per week (SWS): |
|---|---|---|
| | • Hausarbeit<br>• Mündliche Prüfung | Vorlesung/Seminar (2 SWS) |

| Prerequisites according to examination regulations: | Recommended prerequisites: |
|---|---|
| none | Introduction to Deep Learning |

| Media: | Literature: |
|---|---|
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**Comments:**

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