The European Master's Program in Computational Logic
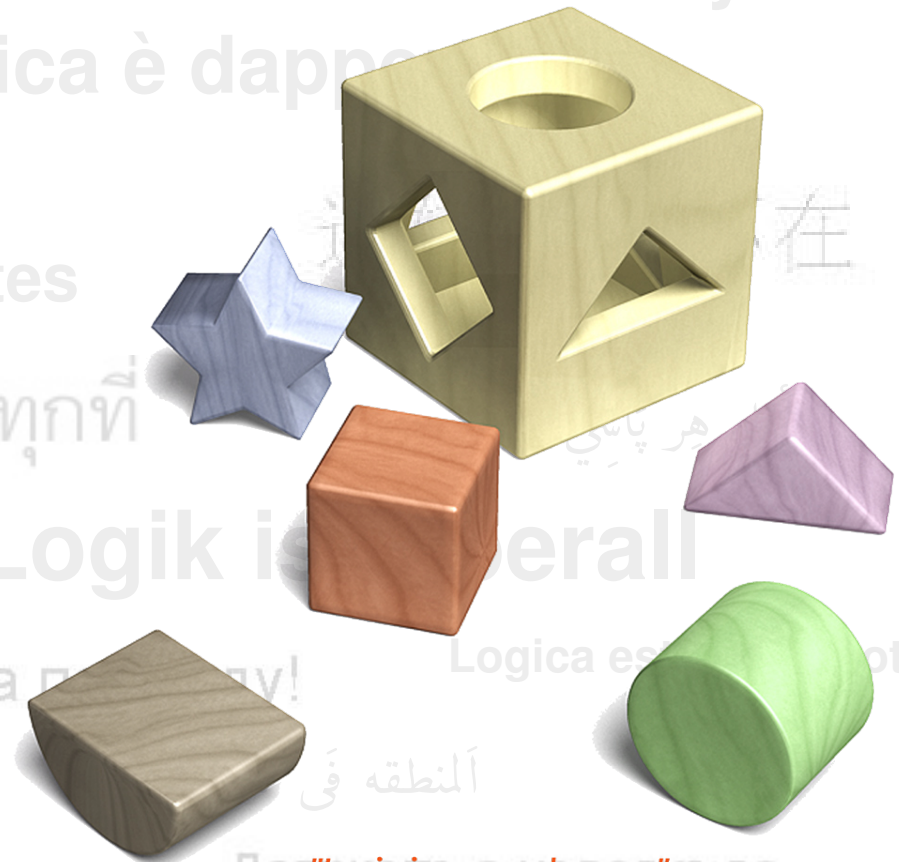
Steffen Hölldobler

International Center for Computational Logic

Technische Universität Dresden

Germany

- ► **EMCL**
- ► **Curriculum**
- ► **EMCL vs MCL**
- ► **Some Hints**

"Logic is everywhere …"

The European Master's Program in Computational Logic (EMCL)

- ▶ **EMCL is a distributed European Master's Program**

  - ▷ **Free University of Bozen-Bolzano (FUB)**

  - ▷ **Technische Universität Dresden (TUD, coordinating institution)**

  - ▷ **Nova Universidade de Lisboa (UNL)**

  - ▷ **Technische Universität Wien (TUW)**

  - ▷ **Nactional ICT Australia (NICTA)**

- ▶ **Joint MSc degree from the European universities
  at which a student has physically studied**

- ▶ **Supported by the European Union
  within the Erasmus Mundus Program since 2004**

Curriculum – Mandatory Modules and Master Thesis

- **Basic Modules (54 cr)**

  - ▷ **Foundations (first semester, 9 cr, TUD)**
  - ▷ **Logic and Constraint Programming (first semester, 9cr, TUD)**
  - ▷ **Advanced Logic (second semester, 8cr, FUB)**
  - ▷ **Inegrated Logic Systems (second semester, 8 cr, FUB)**

- **Presentation and Communication Skills
  (second and third semester, 4cr any European university)**

- **Project (third semester, 16 cr, any European university and NICTA)**

- **Master Thesis (forth semester, 30 cr, any European university)**

Curriculum – Advanced Modules

- ▶ **Advanced Modules (12cr each; select at least three; first - third semester)**
  - ▷ **Constraints (UNL)**
  - ▷ **Computational Logic for Information Technology (TUW)**
  - ▷ **Computer Science Engineering (all European universities)**
  - ▷ **Knowledge Representation (all European universities)**
  - ▷ **Logical Foundations (TUW)**
  - ▷ **Logics and Languages for Software Reliability and Security (UNL)**
  - ▷ **Modelling and Verification (TUD, TUW)**
  - ▷ **Natural Language Processing and Automata (TUD)**
  - ▷ **Principles of Computation (FUB, TUW)**
  - ▷ **Principles of Data Managment (FUB)**
  - ▷ **Principles of Inference (FUB)**
  - ▷ **Semantic Technologies (FUB)**
  - ▷ **Theoretical Computer Science and Logic (TUD)**

Distribution

- **First semester: TUD**

- **Second semester: FUB**

- **Third and forth semester: any European university**

- **Project Work may be done at NICTA during the break between the second and third semester**

EMCL versus MCL

▶ **The International Master's Program in Computational Logic (MCL)**

▶ **Curriculum of MCL is identical to the curriculum of EMCL**

  ▷ **All mandatory modules are offered by TUD**

  ▷ **Only the advanced modules offered by TUD can be selected**

  ▷ **The master thesis is offered by TUD**

▶ **MSc degree from TUD**

Some General Hints

- ▶ **Read the EMCL booklet carefully**
- ▶ **Check out the EMCL web pages carefully and regularly**
- ▶ **Check your emails (on all your accounts) regularly**
- ▶ **Address questions concerning examinations, transcript of records, etc to the SCIS (Julia Koppenhagen) during the announced office hours.**
- ▶ **Address questions concerning individual modules to the respective module representatives**
- ▶ **Address questions concerning individual lectures to the respective lecturers**
- ▶ **Address all other questions to Sylvia Wünsch**
- ▶ **Join us during the weekly open house**
- ▶ **You may contact the coordinator (Steffen Hölldobler) anytime**
  - ▷ **Office phone number: +49 351 46 33 83 40**
  - ▷ **E-Mail: sh@iccl.tu-dresden.de**
  - ▷ **Mobile phone number: +49 151 27 02 36 23 (in case of emergency)**

Some More Specific Hints

- ▶ **For Beginners**

  - ▷ **Focus initially on the two mandatory basic modules**
  - ▷ **If you can follow the lectures and the tutorials of the basic modules then add an advanced module**
  - ▷ **At each university try to complete modules because modules are automatically accepted at all European universities**
  - ▷ **Individual lectures are not automatically accepted at the European universities; you must negotiate with the module representatives**

- ▶ **For Second Year Students and Beyond**

  - ▷ **Please see the coordinator personally during his consultation hours; bring an up to date transcript of records and your current plan of studies**
  - ▷ **Projects are negotiated individually between students and supervisors; you must become active**

Some Even More Specific Hints for Foreign Students

► **We assume that you have come to Germany because you want to be exposed to Germans, a German university and German culture**

  ▷ **Avoid your fellow countrymen and -women;
     you can meet them when you are back home**

  ▷ **Make contact with Germans in the university, in the dormitories, in the city, etc
     and during your studies, during shopping, during sports, during leisure etc**

  ▷ **Learn the German language by speaking to Germans**

  ▷ **A German is likely to be as shy as you in approaching a foreigner;
     be brave; if you make contact it is likely to be an advantage for both of you**

A Final Hint

► **In case you experience any problems whatsoever please contact us immediately; don't wait;
problems will usually not go away, we will just have less time to solve them**