**A brief description of Sander Beekhuis**

Hi,

My name is Sander. I’m in the second year of the Discrete Mathematics and Applications program and look to start my thesis in September.

During my studies I’ve developed a liking for discrete mathematics and Graph Theory in particular. I sometimes like to look at these problems from an algorithmic viewpoint.

In addition to this I’ve obtained quite some experience in writing algorithms by following Computer Science courses

I wrote my Bachelor thesis in the field of Graph Theory. I investigated the relation between the crossing number and the *rectilinear crossing number* (i.e. The crossing number under the requirement that all edges are drawn as line segments.).

**What do I want from my thesis?**

Currently I’m thinking about possibly pursuing a PhD I see my thesis as an opportunity to see if doing research something I enjoy. I would therefore prefer a thesis at the TU/e over a thesis written at a company.

If there is some simulation/computational/experimental component in my thesis I would enjoy this, but this is definitely not a requirement.

**What do I offer?**

I learn new things relatively quickly. Learning is something I enjoy doing. I think this is something that is reflected in my average grade.

I think I have an adequate research mentality. Since, I don’t like giving up and instead keep looking at a problem from different angles.

However I don’t overshoot, when I’m truly stuck I’ll lay something aside to look at it the next day or I ask questions.

**Full List of Master Courses**

**Tu/e Courses**

|  |  |
| --- | --- |
| Cryptology | 9 |
| Optimization | 9 |
| Advanced Algorithms | 8 |
| Applied Functional Analysis | 10 |
| Geometric Algorithms | 8 |
| Multilinear Algebra and Applications | 8 |
| Graphs and Algorithms | 9 |
| Algorithms for Geographic Data | 8 |
| Random Graphs | Q4 |
| Integer Programming | Q4 |
| Algebraic Combinatorics | Q4 |

**Mastermath Courses**

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| --- | --- |
| Symplectic Geometry | 7 |
| Discrete Optimization | 9 |
| Advanced Combianatorics | 8 |
| Algebraic Topology | 6 |