



- > **Scope:** Fulltime
- > **Temporary:** 3 years
- > **Remuneration:** Early stage researcher / Marie Skłodowska-Curie action salary
- > **Start:** As early as possible

**Ulm University with its more than 10,000 students offers varied professional tasks in a highly innovative research, teaching and work environment, at the same time facilitating the reconciliation of work and family in many ways.**

We seek to increase the proportion of women in research and teaching and particularly encourages qualified female scientists to apply for this position.

Severely disabled applicants with equal aptitude will be given preferential consideration.

**For the Institute Clinical and Health Psychology we are looking for an**

## **Academic employee/ PhD candidate (m/f/d)**

for a project investigating Understanding Automated Vehicles (AV) Predictability Using Neuroergonomics within the EU funded project SHAPE-IT (see ESR1 project description on [www.shape-it.eu](http://www.shape-it.eu))

Project objectives: Based on existing models and theories in cognitive psychology, the PhD candidate will derive recommendations for driver-AV interaction strategies by improving the understanding of cognitive mechanisms of drivers' predictions of AV behaviour. This understanding will be achieved by developing and using neurophysiological measurement such as EEG, ERPs and eye-tracking in AV-driving simulator studies. Other variables such as gender, age, and personality will be taken into account to lead to descriptions of drivers' information needs in complex urban traffic and a cognitive model of dynamic task sharing between AV and driver in complex urban traffic.

### **Your profile:**

- > You are within 4 years of obtaining a Master (or equivalent academic degree) in Psychology, Human Factors, Cognitive Science or related subjects
- > You have experience in neurophysiological methods such as EEG, ERPs, eye-tracking or peripheral physiology or cognitive modelling
- > You possess knowledge and experience in conducting empirical studies, preferably with neurophysiological data
- > You have experience in data analysis with SPSS, R, EEG-Lab, Vision Analyzer, SPM, or MatLab
- > You possess very good written and spoken English language skills. Good German language skills or the motivation to learn German are of advantage
- > For this EU project additional eligibility criteria hold. Hence, you can only apply for this position if you have stayed less than 12 months in Germany during the last 3 years (see section Eligibility Criteria on [www.shape-it.eu](http://www.shape-it.eu) for more information)

### **Your responsibilities:**

- > You are supposed to finish a PhD project at Ulm University on the topic of neurophysiological issues concerning urban traffic scenarios
- > You will plan, implement, analyse and document the empirical studies of your project and present the results at international conferences and publish them in international journals
- > You will cooperate closely with SHAPE-IT project partners and the local research team
- > You will contribute to the research agenda of the Department of Clinical and Health Psychology at Ulm University
- > You will supervise of MSc and BSc Psychology candidates
- > You will participate and contribute to the organization of the SHAPE-IT educational program and SHAPE-IT events

**Seize the opportunity and join us in shaping the future of the University!**

More information about the team you can find here:

<https://www.uni-ulm.de/en/in/psy-ges/>



> **Reference no.:**  
> **Application deadline:**

19137  
15.11.2019

Hiring is done by the Central University Administration.

Your contact for further information:  
Dana Schultchen, phone +49 731 50-31734

We look forward to your application via our [online application portal](#).



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**For the Institut Human Factors we are looking for an**

## **Academic employee/ PhD candidate (m/f/d)**

for a project investigating cooperative interaction strategies between automated vehicles and mixed motorized urban traffic within the EU funded project SHAPE-IT (see ESR11 project description on [www.shape-it.eu](http://www.shape-it.eu))

**Objectives of the project:** The PhD candidate will focus on investigating the interaction between drivers in urban traffic situations. Based on the analysis of behavior in prototypical situations the PhD student will develop, analyze and test interaction and cooperation patterns using the state of the art driving simulators at the Department of Human Factors. Based on these results the PhD student will formulate recommendations for safe, efficient, and cooperative AV behavior in mixed urban traffic, resulting in a model of human cooperation behavior in mixed urban traffic and a set of analyzed cooperation patterns between drivers in complex urban traffic that are the basis for developing adequate behavior strategies for AVs in mixed urban traffic.

### **Your profile:**

- > You are within 4 years of obtaining a Master (or equivalent academic degree) in Psychology, Human Factors, Cognitive Science or related subjects
- > You have experience and knowledge in traffic or engineering psychology or behavioral modelling
- > You possess knowledge and experience in conducting empirical studies, preferably driving simulator studies
- > You have experience in data analysis with SPSS, R or MatLab or comparable software packages
- > You possess very good written and spoken English language skills. Good German language skills or the motivation to learn German are of advantage
- > For this EU project additional eligibility criteria hold. Hence, you can only apply for this position if you have stayed less than 12 months in Germany during the last 3 years (see section Eligibility Criteria on [www.shape-it.eu](http://www.shape-it.eu) for more information)

### **Your responsibilities:**

- > You are supposed to finish a PhD project at Ulm University on the topic of cooperative interaction strategies between automated vehicles and mixed motorized urban traffic
- > You will plan, implement, analyse and document the empirical studies of your project and present the results at international conferences and publish them in international journals
- > You will cooperate closely with SHAPE-IT project partners and the local research team
- > You will contribute to the research agenda of the Human Factors Lab at Ulm University
- > You will supervise of MSc and BSc Psychology candidates
- > You will participate and contribute to the organization of the SHAPE-IT educational program and SHAPE-IT events

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> **Reference no.:**  
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19135  
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Your contact for further information:

Prof. Dr. Martin Baumann, phone +49 731 50-26500

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## **Academic employee/ PhD candidate (m/f/d)**

for a project investigating interaction strategies for agile and transparent vehicle automation in urban traffic within the EU funded project SHAPE-IT (see ESR6 project description on [www.shape-it.eu](http://www.shape-it.eu))

Objectives of the project: Based on existing models and theories in cognitive psychology the PhD candidate will develop and validate a cognitive model of dynamic task sharing between driver and automation in complex urban traffic situations. Based on this model the PhD will develop driver-adaptive interaction strategies for dynamic task sharing considering effects of gender, age, and personality and validate these strategies in simulator studies. This will lead to descriptions of drivers' information needs in complex urban traffic and a cognitive model of dynamic task sharing between AV and driver in complex urban traffic.

### **Your profile:**

- > You are within 4 years of obtaining a Master (or equivalent academic degree) in Psychology, Human Factors, Cognitive Science or related subjects
- > You have experience and knowledge in traffic or engineering psychology or cognitive modelling
- > You possess knowledge and experience in conducting empirical studies, preferably driving simulator studies
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### **Your responsibilities:**

- > You are supposed to finish a PhD project at Ulm University on the topic of agile and transparent automation for urban traffic scenarios
- > You will plan, implement, analyse and document the empirical studies of your project and present the results at international conferences and publish them in international journals
- > You will cooperate closely with SHAPE-IT project partners and the local research team
- > You will contribute to the research agenda of the Human Factors Lab at Ulm University



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