

## about us



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**nanoscale modeling**



Dipl.-Ing. Lokamani



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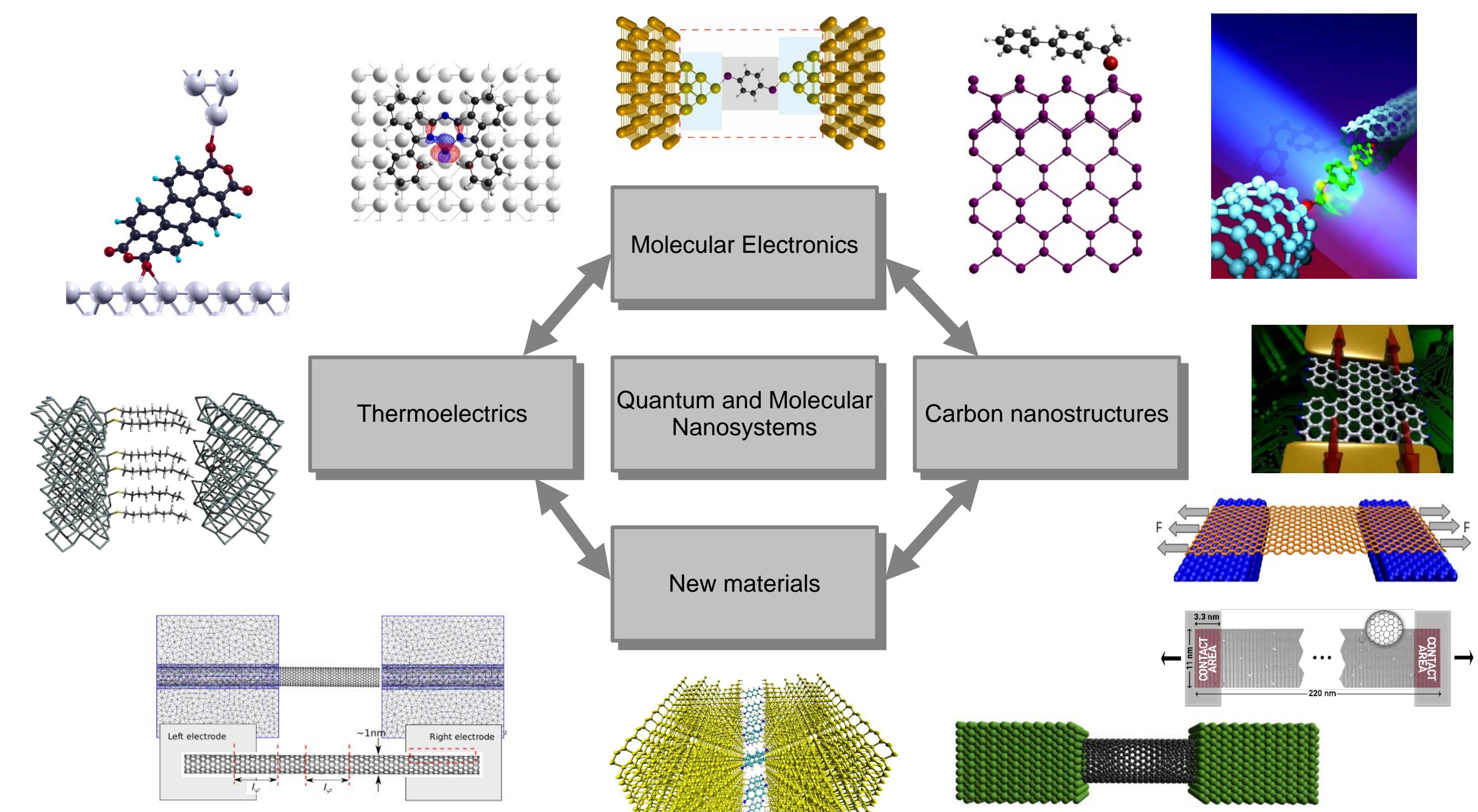
M.Sc. Markus Seifert



TUD, Hallwachsstraße 3

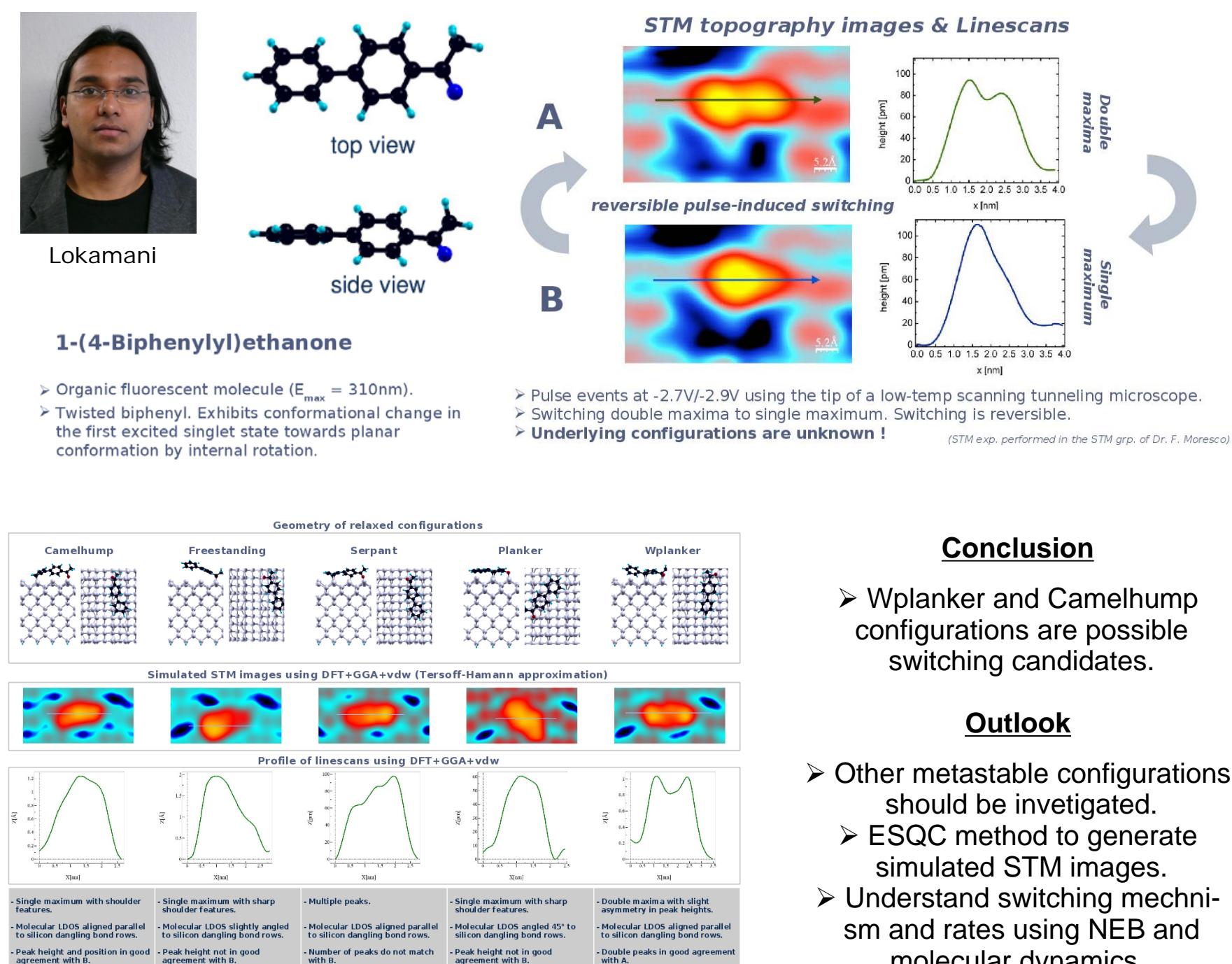
## our vision

Mechanical, electrical and thermal properties of quantum and molecular nanosystems



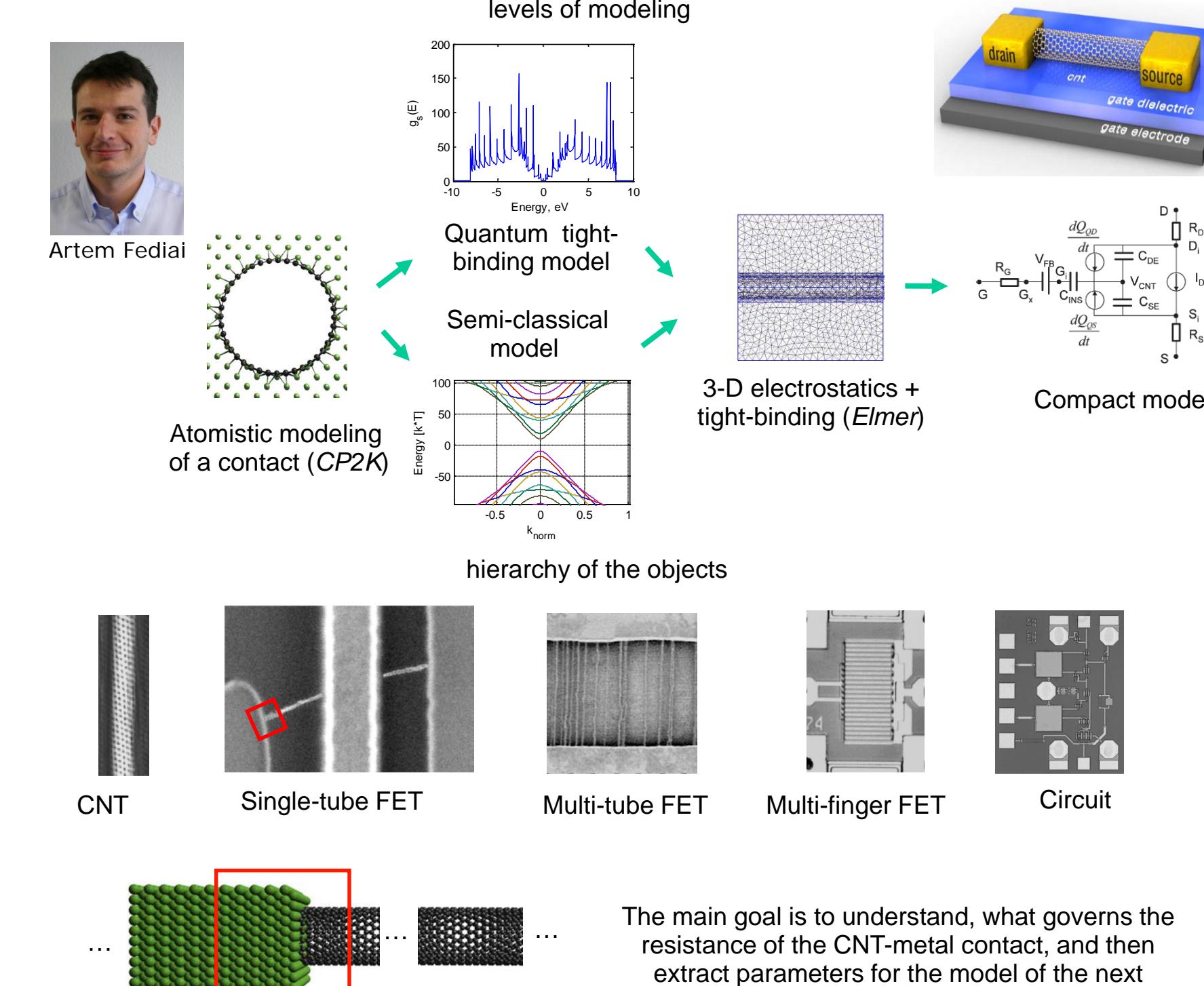
## Molecular Switching

### Pulse-induced switching of Acetyl biphenyl on Si(100)



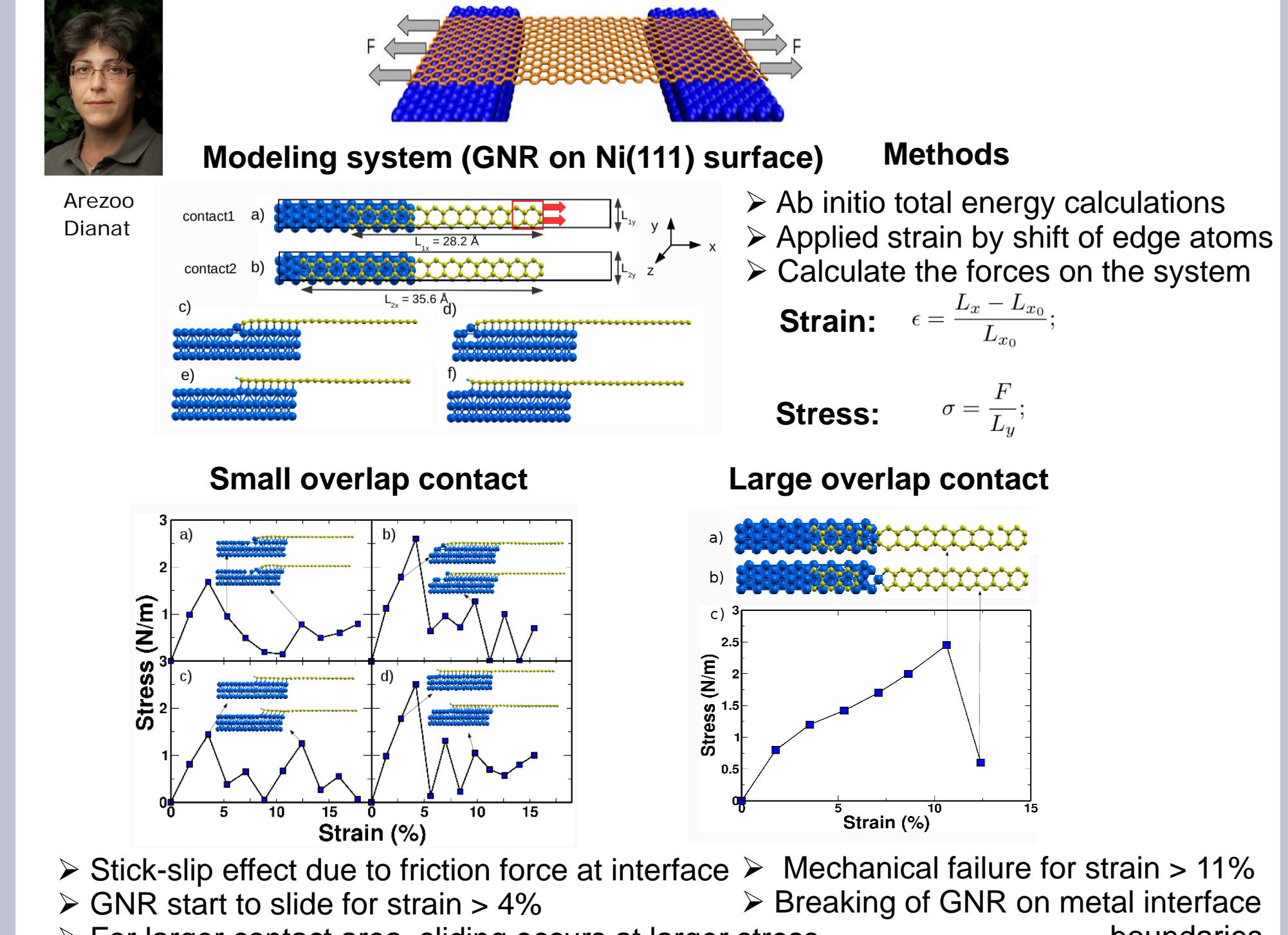
## Carbon nanotube transistor

### Multiscale modeling of CNT-FET

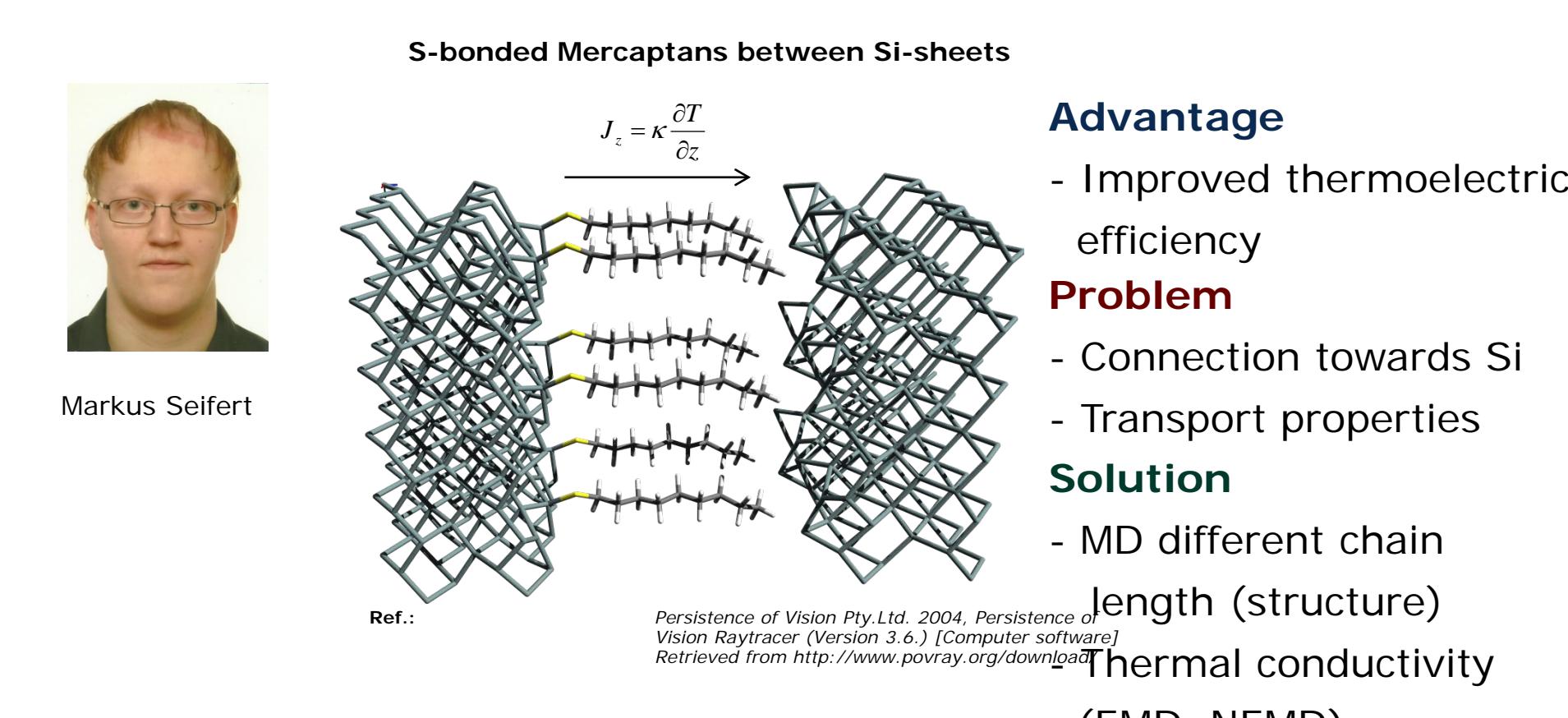
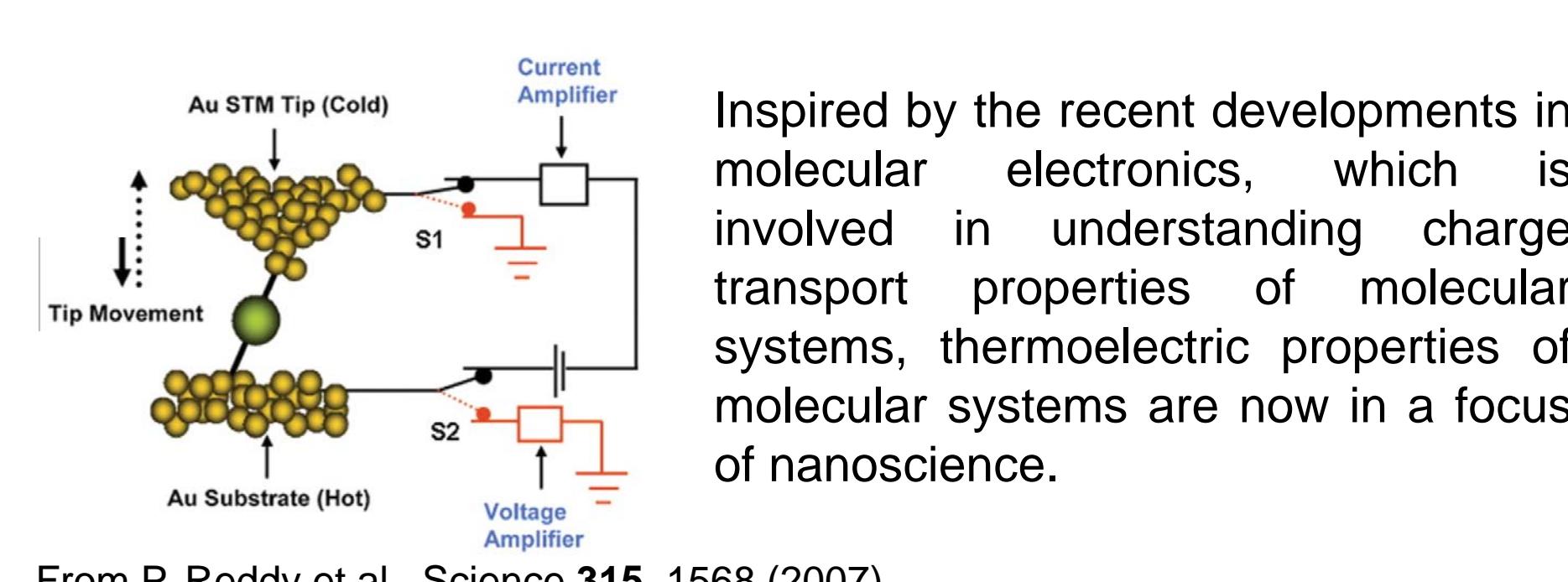


## Graphene nanoribbons under strain

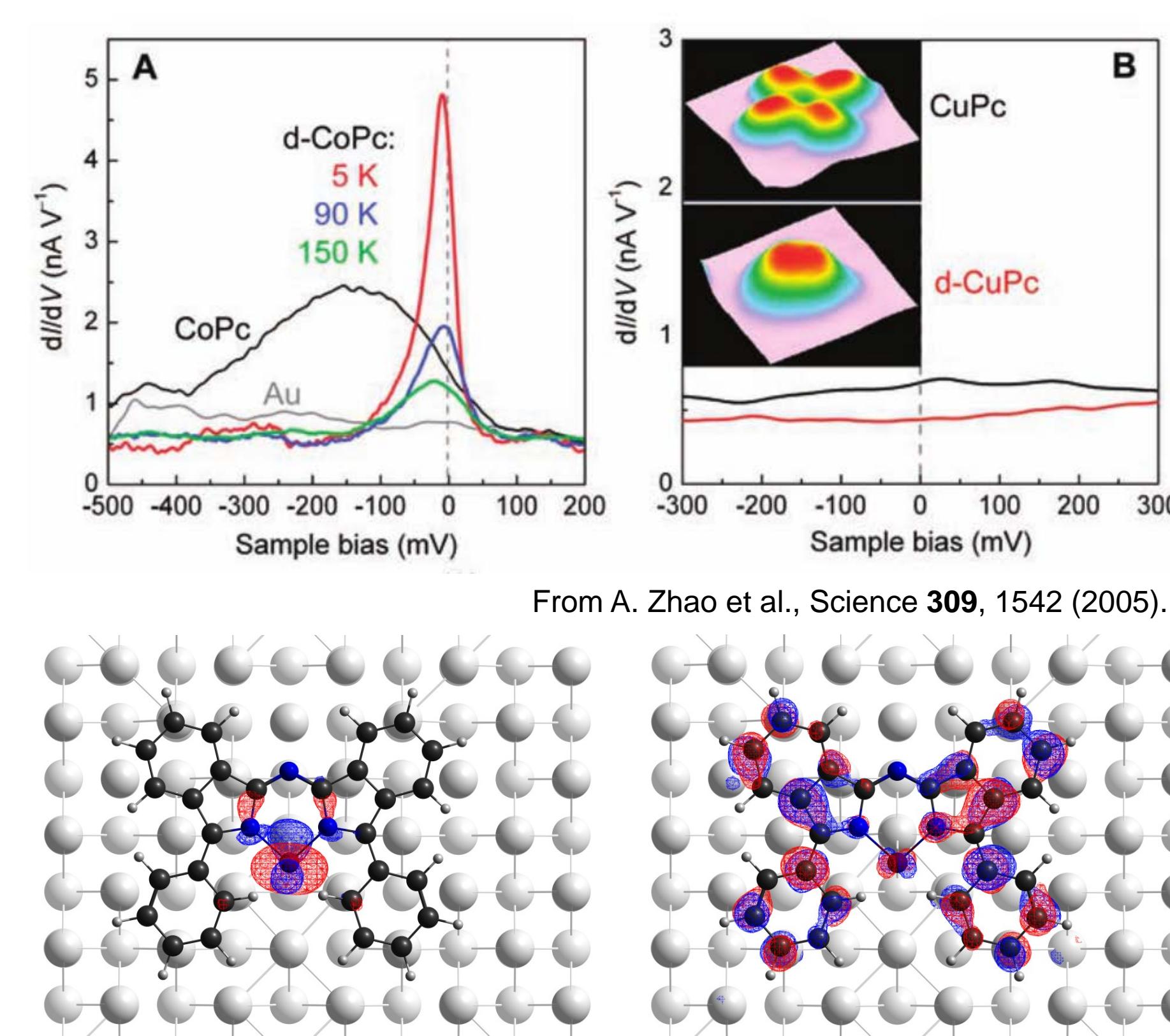
### Our aim: Investigation of mechanical properties of graphene nanoribbons in a real device



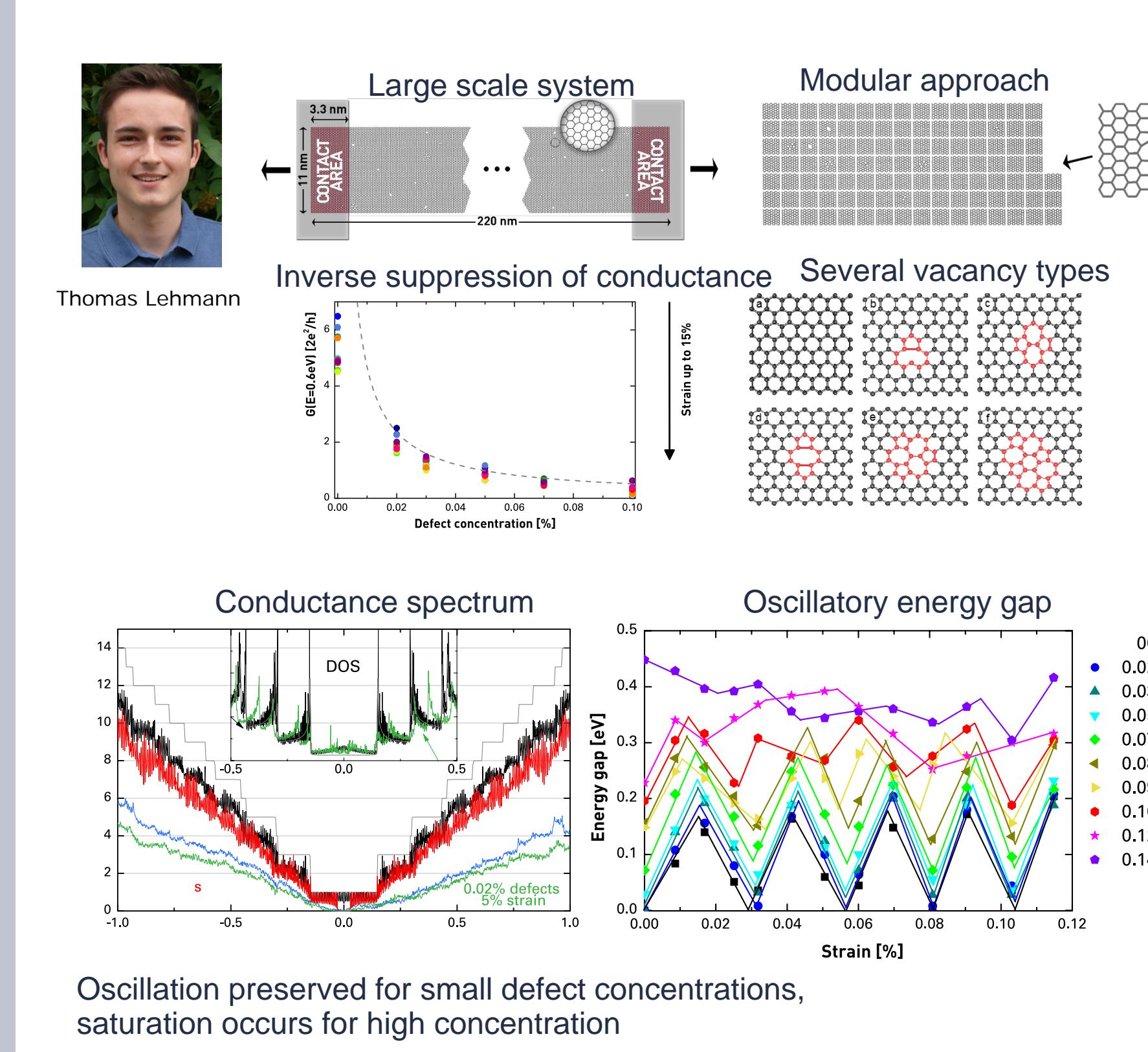
## Molecular Thermoelectrics



## Kondo effect in molecular junctions



## Graphene nanoribbons: strain, defects



## our collaboration network

