



Dániel Tüzes

Dániel Tüzes is a post doctoral Ph.D. student in physics, earned his Ph.D. and M.Sc. in physics and did his research in FAU Nürnberg-Erlangen and Eötvös University, Budapest. His research interest includes stochastic simulations and modelling of non-conservative systems and verifying the predictions by experimental investigation. He exploits the efficiency of C++ and the compute power of GPGPU in his stochastic simulations.

Theoretic aspects: describing dislocation systems as a non-conservative N-body problem; using mean-field or local density approximation and finding the corresponding equations of motion. Derive predictions of the constructed models investigable by experiments.

Numerical aspects: solving the partial differential equations describing the equation of motion in a numeric way requires effective coding achieved with C++. Dániel Tüzes is enthusiastic in exploiting the advantages of GPU programming in simulations.

Experimental aspects: the predictions of the models can be verified by experiments using in-situ nanoindentation of single crystals with coupled acoustic emission detection.

Education

2012–2019 **Ph.D.**, Eötvös University, Budapest and Friedrich Alexander University Nürnberg-Erlangen, *Summa cum laude*.

Materials science and condensed matter physics training program

Thesis title: Stochastic properties of dislocation motion and rearrangement

2007–2012 **M.Sc.**, Eötvös University, Budapest.

Research physicist training program; Atomic and Molecular Physics module

Thesis title: Determining polarization of dislocation ensembles

Experience

Vocational

year–year **Job title, Employer, City.**

General description no longer than 1–2 lines.

Detailed achievements:

- Achievement 1;
- Achievement 2, with sub-achievements:
 - Sub-achievement (a);
 - Sub-achievement (b), with sub-sub-achievements (don't do this!);
 - Sub-sub-achievement i;
 - Sub-sub-achievement ii;
 - Sub-sub-achievement iii;
 - Sub-achievement (c);
- Achievement 3.

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🌐 <http://metal.elte.hu/tuzes/> • **in** [daniel-tuzes](#) • [danieltuzes](#)

[ResearchGate](#), [Google Scholar](#)

year–year **Job title**, *Employer*, *City*.
Description line 1
Description line 2

Miscellaneous

year–year **Job title**, *Employer*, *City*.
Description

Languages

Language 1	Skill level	<i>Comment</i>
Language 2	Skill level	<i>Comment</i>
Language 3	Skill level	<i>Comment</i>

Computer skills

category 1	XXX, YYY, ZZZ	category 4	XXX, YYY, ZZZ
category 2	XXX, YYY, ZZZ	category 5	XXX, YYY, ZZZ
category 3	XXX, YYY, ZZZ	category 6	XXX, YYY, ZZZ

Interests

hobby 1 Description
hobby 2 Description
hobby 3 Description

Extra 1

- Item 1
- Item 2
- Item 3. This item is particularly long and therefore normally spans over several lines. Did you notice the indentation when the line wraps?

Extra 2

- | | |
|----------|--|
| ○ Item 1 | ○ Item 4 |
| ○ Item 2 | ○ Item 5[?] |
| ○ Item 3 | ○ Item 6. Like item 3 in the single column list before, this item is particularly long to wrap over several lines. |

References

Category 1

- Person 1
- Person 2
- Person 3

Category 2

Amongst others:
○ Person 1, and
○ Person 2
(more upon request)

All the rest & some more

That person, and **those** also (all available upon request).