



**Ph. D. Albina Jegorowa, Assistant**

### CONTACT

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### EDUCATION

Occupational titles and science degrees	Date (year)	Institution
<b>Master engineer</b> of Wood technology	1998	Faculty of Mechanical Wood Technology Arkhangelsk State Technical University
<b>Doctor</b> of forest sciences in field of wood technology	2018	Faculty of Wood Technology Warsaw University of Life Sciences - SGGW

### PROFESIONAL COMPETENCE – over 20 Years

Position	Date (year)	Institution
Laboratory assistant	1998	Department of mechanical carpentry and plywood production Faculty of Mechanical Wood Technology Arkhangelsk State Technical University
Assistant	2001	Department of Furniture and Design
Lecturer	2004	Faculty of Mechanical Wood Technology Arkhangelsk State Technical University
Director, lecturer	2010	Library Voronin Arctic Maritime Institute
Assistant	2017	Department of Mechanical Processing of Wood Faculty of Wood Technology Warsaw University of Life Sciences - SGGW

Also:

- in the years 2001 - 2014 President of the Board of the Arkhangelsk Regional Social Organization "Polish Cultural and Educational Association «Polonia»"

### SELECTED CURRENT FUNCTIONS

- Member of the Forest Science Discipline Council
- Coordinator for disabled students at the Institute of Wood Sciences and Furniture
- Language editor at the Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology

### DIDACTIK

- the lectures: Engineering drawing, Wood cutting and machining tools, Designing and producing metal elements of equipping Interiors, Designing and producing furniture about the metal supporting structure;
- author and co-author of handbooks, course books, monographs, e.g.:

Технология художественной обработки материалов: методические указания к дипломному проектированию (2008)

Основы автоматизированного проектирования изделий из древесины и технологических процессов. Раздел „ Основы компьютерной графики” (2003)

Основы автоматизированного проектирования изделий из древесины(2003)

## SCIENCE

### Science research:

- diagnostics of the wear condition of cutting tools;
- quality of wood and wood-based materials processing;
- machinability of wood and wood-based materials.

### Research projects:

- Research task within the internal competition procedure of the Warsaw University of Life Sciences (SGGW) in Warsaw No. 505-10-062500-M00510-99, "Vision systems in furniture product quality control" – contractor.
- Research task within the internal competition procedure of the Warsaw University of Life Sciences (SGGW) in Warsaw No. 505-10-062500-N00353-99, "Basics of automatic image analysis in controlling the quality of edges resulting from the drilling and milling of wood-based panels" – contractor.

### Cooperations:

- Institute of Information Technology, Warsaw University of Life Sciences - SGGW;
- Faculty of Electrical Engineering, Warsaw University of Technology.

## SELECTED SCIENCE PUBLICATIONS FROM LAST 6 YEARS:

**ORCID: 0000-0002-8935-845X**

### 2020

**Jegorowa A., Górski J., Kurek J., Kruk M. , 2020:** Use of nearest neighbors (k–nn) algorithm in tool condition identification in the case of drilling in melamine faced particleboard. *Maderas. Ciencia y Tecnologia*, 22(2).

<http://revistas.ubiobio.cl/index.php/MCT/article/view/3955>

### 2019

**Jegorowa A., Górski J., Kurek J., Kruk M., 2019:** Initial study on the use of support vector machine (SVM) in tool condition monitoring in chipboard drilling. *European Journal of Wood and Wood Products* 77, 957–959(2019).

<https://doi.org/10.1007/s00107-019-01428-5>

### 2018

**Kurek J., Wieczorek G., Swiderski B., Kruk M., Jegorowa A., Gorski J., 2018:** Automatic Identification of Drill Condition During Drilling Process in Standard Laminated Chipboard with the Use of Long Short-Term Memory (LSTM). *IEEE, 19th International Conference Computational Problems of Electrical Engineering*. DOI: 10.1109/CPEE.2018.8506809

### 2017

**Swiderski B., Kurek J., Osowski S., Kruk M., Jegorowa A., 2017:** Diagnostic system of drill condition in laminated chipboard drilling process. 21<sup>st</sup> International Conference on Circuits, Systems, Communications and Computers (CSCC 2017), MATEC Web Conf., 125 (2017) 04002 - <https://doi.org/10.1051/mateconf/201712504002>

**Kurek J., Wieczorek G., Swiderski B., Kruk M., Jegorowa A., Osowski S., 2017:** Transfer learning in recognition of drill wear using convolutional neural network. 18th International Conference on Computational Problems of Electrical Engineering (CPEE 2017): proceedings: 11-13 September 2017, Kutna Hora, Czech Republic. - Kutna Hora, 2017. - S. 180-183, DOI: [10.1109/CPEE.2017.8093087](https://doi.org/10.1109/CPEE.2017.8093087)

**Jegorowa A., Kruk M., Kurek J., Górski J., 2017:** Влияние состояния инструмента на качество обработки во время сверления в древесностружечной ламинированной плите. *Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology* 2017, nr 99, s. 37-40

**Kurek J., Świderski B., Jegorowa A., Kruk M., Stanisław Osowski.,2017:** Deep learning in assessment of drill condition on the basis of images of drilled holes. Eighth Inational Conference on Graphic and Image Processing (ICGIP 2016) : 29–31 October 2016 Tokyo, Japan / ed. Tuan D. Pham, Vit Vozenilek, Zhu Zeng. -Bellingham: SPIE, 2017. - S. 1-7

## 2016

**Kurek J., Kruk M., Osowski S., Hoser P., Wieczorek G., Jegorowa A., Górski J., Wilkowski J., Śmietańska K., Kossakowska J., 2016:** Developing automatic recognition system of drill wear in standard laminated chipboard drilling process. Bulletin of the Polish Academy of Sciences Technical Sciences 64 (3): 633-640. – DOI: [10.1515/bpasts-2016-0071](https://doi.org/10.1515/bpasts-2016-0071)

**Kruk M., Jegorowa A., Kurek J., Osowski S., Gorski J., 2016:** Automatic recognition of drill condition on the basis of images of drilled holes. IEEE, 2016 17th International Conference Computational Problems of Electrical Engineering (CPEE). DOI: [10.1109/CPEE.2016.7738736](https://doi.org/10.1109/CPEE.2016.7738736)

**Jegorowa A., Górski J., Czarniak P., 2016:** Предварительная селекция выбранных характеристик диагностических сигналов зарегистрированных во время сверления в древесностружечной ламинированной плите основанная на анализе монотонности. Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology 2016, nr 95, s. 7-11

## 2015

**Jegorowa A., Górski J., Morek R., Podziewski P., Szymanowski K., Czarniak P., 2015:** Значение виброакустических сигналов таких как вибрация и шум в диагностике износа инструмента во время сверления в древесностружечной ламинированной плите. Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology 2015, nr 92, s. 141-145

**Jegorowa A., Czarniak P., Górski J., Wilkowski J., Podziewski P., Szymanowski K., 2015:** Геометрия износа сверла во время обработки древесностружечных ламинированных плит. Annals of Warsaw University of Life Sciences - SGGW. Forestry and Wood Technology 2015, nr 89, s. 66-69

## AWARDS:

- Silver medal of the "Polish Community" Association – 2006;
- Gold Cross of Merit of the Republic of Poland – 2009;
- Gold medal of the Guardian of National Remembrance Sites – 2011.

*Aktualizacja danych: styczeń 2020 r.*