

Curriculum Vitae

Last updated July 2023

ELENA KOSAREVA

Ph.D. Candidate

Department of Human Ecology, University of Alberta
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ACADEMIC TRAINING **Ph.D. Candidate in Human Ecology, Textile Science**

Sept 2018 - **University of Alberta**
ongoing Edmonton, AB, Canada
expected Fall 2023 Thesis working title: Development of wildland firefighters protective clothing systems with improved thermal insulation properties
Supervisor: Dr. Jane Batcheller

Sept 2010 - **M.Sc. in Technology and Design of Soft Goods**
Jul 2012 **St. Petersburg State University of Industrial Technologies and Design**
St. Petersburg, Russia
Thesis Titled: Design of clothes with new functional properties for junior school girls students
Supervisors: Prof. Vera Kiseleva, Dr. Tamara Diankova

Sept 2005 - **Specialist Degree¹ in Apparel Science (*apparel pattern engineer, garment design*)**
Jun 2010 **St. Petersburg State University of Industrial Technologies and Design**
St. Petersburg, Russia
Qualification: Engineer with major in design of sewn goods

RESEARCH EXPERIENCE **Graduate Research Assistant**

Jan 2021 - **Department of Human Ecology, University of Alberta**
April 2022 Edmonton, AB, Canada
Program: Innovation for Defence Excellence and Security (IDEaS) in the fight against COVID-19, Department of National Defence
Research focus: Rechargeable, self-decontaminating personal protective equipment and operational clothing and equipment for personnel responding to events involving biological hazards
Responsibilities included:

- Assessment of the effect of self-decontaminating treatment effect on military fabrics on their properties
- Performance of standard test methods for the assessment of textile material performance
- Technical report preparation including data summary tables, graphs, charts, statistical analysis and test methods principle with the apparatus description
- Collaboration with chemistry research assistant
- Attendance of monthly meetings with industry partners, giving presentations with research reports
- Mentoring MSc student on specimen preparation, conducting test methods

¹ Specialist degree in Russia is equivalent to a Bachelor of Science & Postgraduate Diploma in Canada. Information is based on the educational credential assessment report from the University of Toronto in September 2021.

- RESEARCH EXPERIENCE** **Graduate Research Assistant**
continued **Department of Human Ecology, University of Alberta**
Nov 2020 - Edmonton, AB, Canada
Mar 2021
- Research focus: Investigation of the role of fibre, yarn, and fabric structure on the interactions between fabric and human skin
Responsibilities included:
- Contribution to the writing of academic literature review (i.e. providing the content; writing several sections)
 - Searching of the scientific articles, book chapters, other papers and publications related to the area of textile properties (i.e., investigation of the relationship between the structures of knitted fabrics, yarns, and fibres and interaction behaviour)
- Oct 2020 - **Graduate Research Assistant**
Feb 2021 **Interdisciplinary Research at the University of Alberta**
Edmonton, AB, Canada
Project partnership: Alberta Health Services (AHS)
Research focus: Analysis of potential facemask materials for protection against COVID-19 virus.
Responsibilities included:
- Determination of textile material properties following standard test methods (i.e. mass per unit area ASTM D3776/D3776M-20; thickness ASTM D1777-96(2019); fabric count for woven materials ASTM D3775-17e1)
 - Identification of yarn and fibre diameter using the biological polarizing microscope and stereo microscope respectively
 - Facemasks materials' characterization by performing qualitative analysis of fabric structure and fibre content (optical microscopy and fibre melting point test)
 - Performance of air permeability standard testing of textile materials ASTM D737-18
 - Technical report preparation including data summary tables, microscope images, test methods principle and apparatus description
- Note. Project has been funded by NSERC, Alliance COVID-19 Grant program.*
- Sept 2019 - **Graduate Research Assistant**
Dec 2019 **For Canadian General Standards Board (CGSB)**
Textile Analysis Service (TAS), University of Alberta
Edmonton, AB, Canada
Research focus: Study involved the process of updating a textile test method, CAN/CGSB 4.2 No. 58 Dimensional Change in Domestic Laundering of Textiles, specifically comparison of washing machines' performances on shrinkage of different types of fabric.
Responsibilities included statistical analysis of data with performance of:
- Repeated Measures four-way ANOVA overall test with planned pairwise comparison of Follow-up test
 - Inter-rater Reliability Analysis

- RESEARCH EXPERIENCE**
- continued*
- Jan 2019 - **Graduate Research Assistant**
Aug 2019 **For BioLargo Water Inc.**
Department of Human Ecology, University of Alberta
Edmonton, AB, Canada
Research focus: Textile structure and fibre content analysis for water filtration technology with advanced oxidation system (AOS)
Responsibilities included:
- Performance of standard test methods for textiles, including Breaking strength of fabrics - Strip Method CAN/CGSB-4.2 No. 9.1-M90; The liquid absorbency capacity (LAC) ISO 9073-6: 2000; Air permeability CAN/CGSB-4.2 No. 36-M89
 - Microscopy fibre examination (fibre size measuring due to swelling)
 - Collecting all experimental data
 - Technical report preparation with data analysis, graphs, charts and oral presentation
- Sept 2010 - **Graduate Research Assistant**
Jun 2012 **For the Department of Chemical Technology**
St. Petersburg State University of Industrial Technologies and Design
St. Petersburg, Russia
Research focus: Evaluation of soil-repellent finishes impact on polyester and polyamide fabrics
Responsibilities included:
- Textile specimen preparation (treatment and cutting)
 - Performance of standard test method ISO 13934-1:1999 Textiles — Tensile properties of fabrics — Part 1: Determination of maximum force and elongation at maximum force using the strip method
 - Collecting and logging experimental data
- Sept 2007 - **Undergraduate Research Assistant**
Aug 2010 **For the Department of Chemical Technology**
St. Petersburg State University of Industrial Technologies and Design
St. Petersburg, Russia
Research focus: Analysis of adhesive bond strength of fabric interfacing
Responsibilities included:
- Performance of standard test method ISO 13934-1:1999 Textiles — Tensile properties of fabrics — Part 1: Determination of maximum force and elongation at maximum force using the strip method
 - Collecting and logging experimental data
- Sept 2006 - **Undergraduate Research Assistant**
Aug 2007 **For the Department of Physics**
St. Petersburg State University of Industrial Technologies and Design
St. Petersburg, Russia
Research focus: Study of the effects of radiotelephone radiation on the human body
Responsibilities included:
- Contribution to experimental design; measuring the heating of the surface of the human body at the location of the phone using thermocouples
 - Collection and logging experimental data

RESEARCH EXPERIENCE **Undergraduate Research Assistant**
continued **For the Department of Physics**
Jan 2006 - **St. Petersburg State University of Industrial Technologies and Design**
Aug 2006 St. Petersburg, Russia
Research focus: Investigation of the advantage of a hollow wheel for speed gain compared to a solid
Responsibilities included:
▪ Calculation and comparison of the moment of inertia of hollow and solid cylinders with the same mass
▪ Development and construction of the wheel prototypes

TEACHING EXPERIENCE **Graduate Teaching Assistant**
Sept 2018 - **Human Ecology Department, University of Alberta**
April 2023 Edmonton, AB, Canada
HECOL 270: Application of Textile Science
Responsibilities included:
▪ Providing the instructions on fibre microscopy, chemical solubility, assessment of woven and knitted fabric structures, dying process of textiles
▪ Mentoring during the lab session, answering questions
▪ Setting up the classroom and specimen preparation
▪ Assignments grading
▪ *Making videos of lab experiments on dying processes of textiles depending on fibre content (posted on e-class during COVID 19 lockdown in 2020)*

Sept 2018 - **Graduate Teaching Assistant**
April 2023 **Human Ecology Department, University of Alberta**
Edmonton, AB, Canada
HECOL 370: Quality Assurance of Textiles and Apparel
Responsibilities included:
▪ Providing the instructions of performing standard test methods of textile performance assessment (e.g. breaking strength, tearing strength, color change assessment, crocking, colour fastness to light, colour fastness to laundry)
▪ Laboratory equipment demonstration
▪ Mentoring during the lab session, answering questions
▪ Setting up the classroom and specimen preparation
▪ Assignments grading

OTHER TEACHING & RESEARCH CONTRIBUTIONS **Guest lecture for HECOL 454: Apparel Design and Product Development II**
March 13, 2023 **Human Ecology Department, University of Alberta**
Edmonton, AB, Canada
Lecture topic: Application of patternmaking and garment construction skills in CLO 3D

January 13, 2023 **Guest speaker at Graduate Teaching and Learning Program: Practicum**
University of Alberta, Faculty of Graduate Studies and Research (FGSR)
Edmonton, AB, Canada
Session topic: Teaching in the Canadian classroom

- OTHER TEACHING & RESEARCH CONTRIBUTIONS**
- continued*
- Jul 2021 -
Aug 2021
- Virtual mentoring in Summer Research Program
Women in Scholarship, Engineering, Science, & Technology (WISEST)
Department of Human Ecology & Department of Chemistry, University of Alberta**
Edmonton, AB, Canada
Project title: Rechargeable, self-decontaminating personal protective equipment and operational clothing and equipment for personnel responding to events involving biological hazards
Responsibilities included:
- Providing online mentorship sessions for WISEST student with introduction to textile science, textile testing and analysis used in the project
 - Making virtual lab tour with textile testing equipment demonstration at Human Ecology Building
- July 2021
- Conducting fibre microscopy analysis
Online Exhibition “Unwrapping African Commemorative Cloth” [link](#)
Human Ecology Department, University of Alberta**
Edmonton, AB, Canada
Contribution: providing expert analysis in fibre identification of artifact [link](#)
- Jul 2019 -
Aug 2023
- Preparing students’ lab materials for classes
Human Ecology Department, University of Alberta**
Edmonton, AB, Canada
HECOL 270: Application of Textile Science
HECOL 370: Quality Assurance of Textiles and Apparel
HECOL 254: Apparel Design and Construction Fundamentals
Responsibilities included:
- Preparing collection of different fibre type samples
 - Cutting different fabrics for students’ sample books
 - Preparing textile specimens for structure analysis and standard testing
 - Preparing fabric samples with outlined details for clothing construction class
- PROFESSIONAL DEVELOPMENT**
- Graduate Teaching and Learning Program: Pedagogy & Course Design (June, 2023)**
University of Alberta, Faculty of Graduate Studies and Research (FGSR)
Edmonton, AB, Canada
Level 3: Pedagogy & Course Design is designed for students seeking to work as principal instructors in university-level courses. It provides a creative, collegial environment to discuss teaching and explore best practices in course design and classroom pedagogy. Drawing on their statement of teaching philosophy, participants design a discipline-specific course, create a syllabus, and develop a representative lesson plan and assessments. They also practice teaching and offer colleagues thoughtful and constructive feedback on their presentations.

PROFESSIONAL DEVELOPMENT **Graduate Teaching and Learning Program: Practicum (February, 2023)**
University of Alberta, Faculty of Graduate Studies and Research (FGSR)
continued Edmonton, AB, Canada

Level 2: Practicum equips graduate students with fundamental skills and competencies related to classroom instructions that are based in teaching scholarship. It builds upon Level 1: Foundations by translating the knowledge developed there into practical application. Framed by a process of intentional reflection, personal goal setting, and peer engagement, graduate students create a statement of teaching philosophy that serves as the basis for skill-building in lesson planning, development, and delivery. Using the statement of teaching philosophy as a functional document, they will also develop a preliminary teaching dossier for use in academic job applications.

Graduate Teaching and Learning Program: Foundations (January, 2023)
University of Alberta, Faculty of Graduate Studies and Research (FGSR)
Edmonton, AB, Canada

Level 1: Foundations is a workshop series that provides the basis for a deeper dive into scholarly literature on teaching and skill-building in Levels 2 through 4 by establishing foundational knowledge associated with student-centered learning. It covers the university policy and professional ethics training needed to know as a teaching assistant and teaching basics that will help to become a more effective and confident educator.

**SCIENTIFIC REPORTS FOR
INDUSTRY PARTNERS**

Dolez, P., Batcheller, J., Harynuk, J., de la Mata, P., Schmidt, S., & Kosareva, E. (2021) *Rechargeable, self-decontaminating Personal Protective Equipment and Operational Clothing and Equipment for personnel responding to events involving biological hazards*. Report prepared for the Department of National defence, Innovation for Defence Excellence and Security (IDEaS).

Kosareva, E., McQueen, R., & Batcheller, J. (2021) *Review of literature on the role of fibre, yarn, and fabric structure on the interactions between fabric and human skin*. Report prepared for a sportswear manufacturer.

Kosareva, E., Dolez, P., & Batcheller, J. (2021) *Characterization of selected facemask materials for protection against COVID-19 virus*. Report prepared for the NSERC Alliance COVID-19 grant program. Project title: High performance homemade masks for protection against COVID-19 virus.

Kosareva, E., McQueen, R., & Batcheller, J. (2019) *Textile structure and fibre content analysis of materials for water filtration technology with advanced oxidation system*. Report prepared for BioLargo Water Inc.

**PUBLICATIONS &
CONFERENCE PROCEEDINGS**

Schmidt, S., Kosareva, E., Gao, Y., de la Mata Espinosa, P., Chainiau, F., Ben Salah, M., Batcheller, J., Harynuk, J., Dolez P. (2023) *Effect of chlorination and simulated use conditions on the efficiency of an N-halamine-based finish applied to medical gown and military fabrics and impact on the fabric performance*. (in-progress)

Peyravi, A., Quecke, E., Hashisho, Z., Quemerais, B., Dolez, P., Doroshenko, A., Smith, S., and Kosareva, E. (2022) *Evaluation of masks and mask material suitability for bioaerosol capture*. Public health. (submitted)

**PUBLICATIONS &
CONFERENCE PROCEEDINGS**
continued

Quecke E., Peyravi A., Kosareva E., Quemerais B., Dolez P, Doroshenko A., Smith S., and Hashisho Z. (2022) Influence of face velocity and exhaled breath condensate on the filtration efficiency of masks and mask materials for COVID-19 transmission prevention. *Science of the total environment*. (submitted)

Diankova, T. Yu., Lvov, D.S., & Kosareva, E.S. (2012). Additive effects in the water-repellent finish of polyester and polyamide fibre. *Collection of reports of the All-Russian scientific and technical conference: Current Trends of Information Technologies Development in Textile Science and Practice*, Russia

Kosareva, E. S., (2011). Designing of new generation school uniform: novel solutions of armhole-sleeve joint design and method of application of soil-repellent coating on fabric. *News of young scientists of St. Petersburg State University of Technology and Design*, 202-203

Poroshina, E. V., Baskova O. Yu., Kosareva, E. S., & Diankova, T. Yu. (2008). Improvement of adhesive strength of adhesion bonds of fabric interfacing. *Young Scientists for Textile and Consumer Goods Industry Development (Search - 2008): Source Book of Inter-university Scientific and Technical Conference of Students and Postgraduates. Part 1.* (pp. 82-83), Russia

Baskova O. Yu., Kosareva, E. S., Diankova, T. Yu., & Tsobkalo, E. S. (2008). Analysis of adhesion bond strength of fabric interfacing. *Issues of Economics and Advanced Technologies in Textile, Consumer Goods and Polygraphic Manufacturing Sectors*. (pp. 73), Russia

ACADEMIC CONFERENCES

Kosareva, E. Paskaluk, S. & Batcheller, J. (2023, March 8) *Comfort properties of a proposed new wildland firefighters' shirt design with improved thermal protection* [Conference poster presentation] Institute of textile science (ITS) scientific session, Edmonton, AB, Canada

Kosareva, E. Batcheller, J., & Paskaluk, S. (2021, March 10) *Comparison of bench-scale test methods for measuring heat transmission through wildland firefighters' protective clothing systems* [Poster presentation] Agricultural, Life & Environmental Sciences (ALES) Graduate Virtual Research Symposium, University of Alberta, Edmonton, AB, Canada

Kosareva, E. Batcheller, J., & Paskaluk, S. (2021, March 29) *Comparison of bench-scale test methods for measuring heat transmission through wildland firefighters' protective clothing systems* [Conference oral presentation] Institute of textile science (ITS) scientific session, Edmonton, AB, Canada

Kosareva, E. (2012, March 10) *Artistic and constructive solutions in designing raincoats for women* [Poster presentation]. Perspective 2012: VIII International competition of designers' projects, Moscow, Russia

Kosareva, E. (2011) *Designing of new generation school uniform: novel solutions of armhole-sleeve joint design and method of application of soil-repellent coating on fabric* [Conference oral presentation]. Innovations of the Youth Science 2011: conference of young scientists, St. Petersburg, Russia

Kosareva, E., & Baskova, O. (2008) *Improvement of adhesive strength of adhesive bonds of fabric interfacing* [Conference oral presentation]. Science Days 2008: scientific and technical conference, St. Petersburg, Russia

Kosareva, E., Baskova, O., & Shumatbaev, A. (2007) *Study of the effects of radiotelephone radiation on the human body* [Conference oral presentation]. Science days 2007: All-Russian scientific and technical conference of students and postgraduates, St. Petersburg, Russia

ACADEMIC CONFERENCES continued Kosareva, E. (2006) *Investigation of the advantage of a hollow wheel for speed gain compared to a solid: calculation and comparison of the moment of inertia of hollow and solid cylinders with the same mass* [Conference oral presentation]. Science days 2006: All-Russian scientific and technical conference of students and postgraduates, St. Petersburg, Russia

INTRADEPARTMENTAL ORAL PRESENTATIONS **Textile Science Seminars**
Human Ecology Department, University of Alberta

Edmonton, AB, Canada

Presentation titles:

- Protective clothing for wildland firefighters with improved thermal insulation properties: research progress report. (2021, October; 2022, January; 2022, April; 2022, July; December, 2022; April, 2023)
- Maintaining air gap in protective clothing systems of wildland firefighters (2021, July)
- Heat transmission bench-scale test methods under wet and dry fabric conditions of wildland firefighters' protective clothing systems, preliminary findings (2021, February)
- Relationship between the non-standard novel TPP cylindrical test method and other standard bench-scale heat transmission test methods, (2020, November)
- Comfort concerns in wildland firefighters' protective clothing system, (2020, August)
- Review of high-performance fabrics and fibres used in wildland firefighters' protective clothing system, (2020, July)
- Introduction to wildland firefighters' protective clothing research, (2020, June)
- Repeated measures ANOVA statistical data analysis of washing machines' performance comparison on shrinkage of different types of fabric, (2020, January)
- Viscose rayon fabrics' structure and performance analysis, (2019, July)
- Tensile strength testing applied to limited dimension specimens, (2019, March)

AWARDS & SCHOLARSHIPS **Graduate Student Research Assistant Award, (February, 2023)** [link](#)
University of Alberta, Graduate Students' Association (GSA)

Edmonton, AB, Canada

Awarded annually to a graduate student who holds a Graduate Teaching Assistantship (GTA) appointment at the University of Alberta. The purpose of this award is to recognize Graduate Teaching Assistants (GTAs) who are especially skillful and dedicated teachers at the University of Alberta.

Graduate Student Teaching Assistant Award, (February, 2022) [link](#)
University of Alberta, Graduate Students' Association (GSA)

Edmonton, AB, Canada

Awarded annually to a graduate student who holds a Graduate Teaching Assistantship (GTA) appointment at the University of Alberta. The purpose of this award is to recognize Graduate Teaching Assistants (GTAs) who are especially skillful and dedicated teachers at the University of Alberta.

AWARDS & SCHOLARSHIPS
continued

Betty Crown Graduate Scholarship in Textile and Apparel Science, (September, 2021)
University of Alberta, Faculty of Graduate Studies and Research (FGSR)
Edmonton, AB, Canada

Awarded annually to a student registered in a PhD or MSc program in the Department of Human Ecology at the University of Alberta whose research pertains to textile and apparel science. The recipient is selected on the basis of high academic standing (grade point average of 3.5 or greater). Preference is given to a student specialising in protective clothing.

Graduate Student Teaching Award, (2021) [link](#)
University of Alberta, Faculty of Graduate Studies and Research (FGSR)
Edmonton, AB, Canada

The Graduate Student Teaching Awards annually recognize outstanding graduate teaching assistants in each faculty at the University of Alberta.

Graduate Student Teaching Award, (2020) [link](#)
University of Alberta, Faculty of Graduate Studies and Research (FGSR)
Edmonton, AB, Canada

The Graduate Student Teaching Awards annually recognize outstanding graduate teaching assistants in each faculty at the University of Alberta.

Alberta Graduate Excellence Scholarship, (January, 2020)
Government of Alberta/ University of Alberta, Faculty of Graduate Studies and Research (FGSR)
Edmonton, AB, Canada

The Alberta Graduate Excellence Scholarship recognizes outstanding academic achievement of students pursuing graduate studies in Alberta. It was established to incent the best and the brightest students, including international students, to study in Alberta.

Academic Excellence Stipend, (2005-2010)
St. Petersburg State University of Industrial Technologies and Design
St. Petersburg, Russia

St. Petersburg State University of Industrial Technologies and Design provides students with a monthly stipend if their grades exceed 4.0 on a 5-point scale.

SELECTED PROFESSIONAL EXPERIENCE
July 2015 -
Sept 2015

Designer of handbags
裨缀 BAIZHUI classic - bags manufacturer
Beijing, China

Responsibilities included:

- Creating bags seasonal collections
- Providing sketches / technical drawings (in CorelDRAW / Adobe Illustrator)

**SELECTED PROFESSIONAL
EXPERIENCE**

continued
May 2013 -
June 2015

Apparel pattern engineer & designer

Stilnie Neposedi - apparel manufacturer (school uniform)

St. Petersburg, Russia

Responsibilities included:

- Creating garment seasonal collection, and providing technical drawings (Corel DRAW)
- Basic block pattern drafting and its modelling for production of complicated design (Assol CAD software for designing clothes)
- Conducting a proper clothing fitting, and issue necessary adjustments or corrections
- Sewing template development and grading according to the required range of garment sizes (Assol CAD software for designing clothes)
- Provide garment construction techniques and sequence
- Determine the amount of material or fabric required to make a garment

For individual body shape of customers:

- Take customers' measurements
- Pattern drafting (manually)
- Arrange fittings to determine whether additional adjustments are needed

Feb 2011 -
Jul 2012

Apparel pattern engineer

Tavifa - apparel manufacturer (functional clothing & equipment)

St. Petersburg, Russia

Responsibilities included:

- Drawing product technical sketches
- Basic block pattern drafting and manipulating according to the needed garment design
- Pattern drafting of bags, backpacks, suitcases, and sport/military equipment with complicated forms
- Sewing templates development
- Pattern grading according to the required range of garment sizes
- Tailoring of the prototype
- Fabric selection and calculation of consumption
- Providing advice on garment construction techniques and sequence

**ACADEMIC SERVICE
VOLUNTEERING EXPERIENCE**

Nov 2022 -
Sept 2023

President

HEGSA - Human Ecology Graduate Students' Association

Department of Human Ecology, University of Alberta

Edmonton, AB, Canada

Responsibilities included:

- setting strategic direction for the Group and being the Chair of the Executive Committee
- acting as the main point of contact for all external organizations possessing signing authority on the group bank account
- approving group expenses and being the primary media contact

- ACADEMIC SERVICE** **Marketing Lead**
- VOLUNTEERING EXPERIENCE** **SPEAR - Space Exploration Alberta Robotics, University of Alberta**
continued
Edmonton, AB, Canada
- Sept 2022 - April 2023
- Responsibilities included:
- Developing & distribute marketing content on various platforms (LinkedIn, Facebook, Instagram, and Twitter) & maintaining SPEAR website
 - Participating in weekly leads & general meetings
 - Giving internal and external presentations, responsible for initiatives
 - Participating in writing and reviewing project proposals for funds
- Sept 2022 - April 2023
- Research Seminars Coordinator**
Department of Human Ecology, University of Alberta
Edmonton, AB, Canada
- Responsibilities included:
- Creating a schedule and google forms for speakers & setting shared google calendar
 - Sending out advertising emails* for undergraduate/graduate students, faculty members, and members of external organizations
 - Sending out invitations for seminars for graduate students & faculty members
 - Creating advertising posters & distributing those in the department
 - Booking speakers' date/time of presentation upon request
 - Gathering information & creating posters about presenters
 - Preparing the classroom for speakers, helping with technology (e.g. connecting computer with the projector and adjusting it)
 - Ordering & providing refreshments
- *Note. The departmental seminars previously were advertised only for Human Ecology Department members. In 2023 they were upgraded and advertised to the Faculty of ALES (Agricultural, Life & Environmental Sciences) level and external organizations such as AHEA (Alberta Human Ecology & Home Economics Association).*
- PROFICIENT COMPUTER SKILLS**
- Microsoft office programs: Word, Excel, PowerPoint
Research & statistical analysis: Zotero, The Statistical Package for the Social Sciences (SPSS software)
Program for remote work: TeamViewer
Garment sketching: Corel Draw, Adobe Illustrator, Adobe Photoshop
Garment pattern design and grading: AssolCAD, AutoCAD
3D modelling: Clo 3D
- LANGUAGES**
- Russian** mother tongue
- English** advanced level (IELTS 7)
- Chinese** intermediate level (obtained certificate of completion of preparation for HSK4 from Peking University)

PROFESSIONAL MEMBERSHIP **The American Association of Textile Chemists and Colorists (AATCC)**
<https://www.aatcc.org/>
Research Triangle Park, NC, USA

Institute of Textile Science
<https://www.textilesciences.com/>
Edmonton, AB, Canada
Montréal, QC, Canada

Innovation in Textiles
<https://www.innovationintextiles.com/>
Nantwich, United Kingdom

ASSOCIATION/CLUB MEMBERSHIP **University of Alberta**
Edmonton, AB, Canada

- Graduate Student Association (GSA)
- Human Ecology Graduate Student Association (HEGSA)
- Chinese Conversation Club (CCC)
- Learning Mandarin (advanced level at Student Volunteer Campus Community (SVCC) languages)
- Language Tandem (Mandarin)

SCIENTIFIC & PROFESSIONAL CONFERENCES ATTENDANCE

(2023, March 7 & 8) *Technical textiles in composite materials; PPE-medical; recycling/sustainable textiles; smart/e-textiles*. [Conference session] Institute of Textile Science (ITS) scientific session, Edmonton, AB, Canada

(2022, March 8) *Technical textiles for geotechnical engineering applications* [Conference online session] Institute of Textile Science (ITS) scientific session, Edmonton, AB, Canada

(2022, March 9) *Energy-harvesting textiles and flexible materials* [Conference online session] Institute of Textile Science (ITS) scientific session, Edmonton, AB, Canada

(2021, June 16-17) *Flammability in textiles and polymers* [Conference online session], American Association of Textile Chemists and Colorists (AATCC), NC, USA

(2021, March 29 & 30) *Agricultural, Life & Environmental Sciences (ALES) Graduate Virtual Research Symposium* [Conference online session], University of Alberta, Edmonton, AB, Canada

(2021, March 10) *PPE for COVID-19 front line workers* [Conference online session] Institute of Textile Science (ITS) scientific session, Edmonton, AB, Canada

(2020, March 12) *Agricultural, Life & Environmental Sciences (ALES) Graduate Research Symposium* [Conference session], University of Alberta, Edmonton, AB, Canada

(2020, March 3) *Quality methods & IT Influences* [Conference session] Institute of Textile Science (ITS) scientific session, Edmonton, AB, Canada

(2019, April 3) *Comfort in textile products* [Conference session] Institute of Textile Science (ITS) scientific session, Edmonton, AB, Canada

(2018, November 5 & 6) *Protective clothing systems for safety* [Conference session] Davey seminar, Edmonton, AB, Canada

- PROFESSIONAL WEBINARS ATTENDANCE** (2022, September 13 - 15) *3D tech festival 2022. (The world's biggest festival of 3D, apparel and fashion)* [Conference online session], Alvanon
- Sangam, D. (2022, September 7) *Artemis Learning Pathway - Science on the Moon* [Webinar presentation]. National Aeronautics and Space Administration (NASA), Educator Professional Development, Hampton, VA, USA
- Klausing, S., Shiels, B., (2022, August 24) *What is an Arc Rating and How is it Determined?* [Webinar presentation]. Institute of textile Science (ITS) & KRÜSS Scientific, AB, Canada
- Elliot, h. (2022, February 9) *The History of AATCC TM212, Test Method for Fibre Release During Laundering* [Webinar presentation]. Institute of textile Science (ITS) & KRÜSS Scientific, AB, Canada
- McGarrity, M. (2020, July 9) *Overview of surgical mask and respirator requirements* [Webinar presentation]. American Association of Textile Chemists and Colorists (AATCC), NC, USA
- Scholle, F. (2020, June 30) *Ask a virologist – coronavirus: what we know, what we don't* [Webinar presentation]. Industrial Fabric Association International (IFIA)North Carolina State University, Raleigh, NC, USA
- Buckener, B. (2020, June 23) *Explore humans in space: pressure suits* [Webinar presentation]. National Aeronautics and Space Administration (NASA), Educator Professional Development, Hampton, VA, USA
- Weiss, A. (2020, June 16) *Explore solar system & beyond: NASA's hunt for signs of life in the outer solar system* [Webinar presentation]. National Aeronautics and Space Administration (NASA), Educator Professional Development, Hampton, VA, USA
- Ormond, B., & Mathews, M. (2020, June 9) *Key principles for effective protection with masks and respirators* [Webinar presentation]. Industrial Fabric Association International (IFIA)North Carolina State University, Raleigh, NC, USA
- DenHartog, E., & King, M. K. (2020, June 2) *Classifications and testing requirements for PPE in medical environments and personal use* [Webinar presentation]. Industrial Fabric Association International (IFIA)North Carolina State University, Raleigh, NC, USA
- Sharp, S., & Leonas, K. K. (2020, May 26) *Principles of Air Filtration Materials and Design* [Webinar presentation]. Industrial Fabric Association International (IFIA)North Carolina State University, Raleigh, NC, USA
- Sharp, S. (2020, May 19) *Nonwovens technology in the production of PPE* [Webinar presentation]. Industrial Fabric Association International (IFIA)North Carolina State University, Raleigh, NC, USA