

# Karolina Barbara Wiesiołek

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EDUCATION	<b>Columbia University</b> – New York, NY Bachelor's Degree in Biological Sciences <b>Borough of Manhattan Community College (BMCC)</b> – New York, NY Associate's degree in Biotechnology	
CONFERENCES & CERTIFICATES	<b>ADLM</b> –Association for Diagnostics & Laboratory Medicine Chicago, IL 2024 <b>NY TECH ALLIANCE</b> New York, NY 2023	<b>2024 BLUE KNIGHT Symposium</b> San Diego, CA 2024 <b>Group 1. Biomedical Research Investigators and Key Personnel</b> CITI Program   Requirement under NY Presbyterian Healthcare System – New York Hospital Queens
TECHNICAL & FIELD EXPERIENCE	<b>mPOD, Inc.   Lab Manager &amp; Data Operations</b> – New York, NY <span>February '22 – Present</span> <b>Next-gen diagnostics startup based out of JLABS (Johnsons &amp; Johnsons Innovation Lab) focused on improving accessibility to healthcare insights. Supported by BARDA and funded with over \$8.6 million from the NIH.</b> <ul style="list-style-type: none"><li>Support day-to-day laboratory operations; well-versed in conducting ELISAs, testing LFA colorimetric &amp; FIA multiplex test strips, gel electrophoresis, PCR, bacterial culturing, buffer development (pH, chemical formulation etc.). Worked in BSL-2 labs with live/ gamma irradiated virus of FluA, FluB, SARS-COV-2.</li><li>Spoke to trained professionals (doctors and nurses) and worked on assays and advancements focused on Woman's Health (Cervical Cancer screening &amp; Pap Smears).</li><li>Manage on-site biological and chemical reagents inventory in laboratory CisPro to meet Federal, New York State, and FDNY regulations and assist in biannual audits to ensure compliant operations.</li><li>Lead database development (collected 100,000+ images for model training and datapoints of numerical data) for the mPOD DxTrack, an AI-based LFA reader.</li><li>Interface with scientists and mentors from the NIH and professors from Cornell University &amp; Columbia University.</li><li>Actively participate in market research, product and business development at networking events with strategic industry partners including Johnsons &amp; Johnsons and NOWDx.</li></ul> <b>Animal Care Volunteer   New York Aquarium</b> – New York, NY <span>May '24– Present</span> <ul style="list-style-type: none"><li>Supported Fish &amp; Invertebrates Team daily operations &amp; long-term initiatives for the health of animals and their ecosystems.</li><li>Focused on with animal life improvement, built a device for support of <i>Tridacna gigas</i> that sustained injury; worked on novel coral nursery plugs to cultivate small coral fragments in hope to restore them into healthy coral colonies.</li><li>Observed &amp; interpreted aquatic animal behavior to develop health-improvement strategies of animals in quarantine.</li></ul> <b>Teaching Assistant   BMCC</b> – New York, NY <span>Fall '21 – Spring '22</span> <b>General Chemistry (CHE-102) &amp; Organic Chemistry (CHE-201)</b> <ul style="list-style-type: none"><li>Worked directly with Professor Abel E. Navarro to implement appropriate course objectives for a class of 65 students.</li><li>Facilitated 2-hour classes three times a week, working one-on-one with students to reinforce critical Chemistry concepts.</li><li>Independently developed lesson plans curating over 100 problems per class to support core curriculum objectives.</li></ul>	
LEADERSHIP & COMMUNITY SERVICE EXPERIENCE	<b>World Games 2017 International Sports Event Volunteer</b> – Wroclaw, Poland <ul style="list-style-type: none"><li>Supported athletes at international events venues (3,214 athletes, from 102 nations, at 23 venues)</li><li>Worked directly with event leaders to organize the opening and closing events of The World Games.</li></ul> <b>TSC New York City Marathon 2018   United Airlines Half-Marathon Volunteer 2023</b> – New York, NY <ul style="list-style-type: none"><li>Supported nearly 53,000 runners - one of the largest Marathon NYC marathons in history</li><li>Provided on-the-ground support directing appropriate medical support to runners in need.</li><li>Supported organizational leader to establish logistics (water, energy supplements and medical implements)</li></ul> <b>Polish Scouting and Guiding Association, ZHP   Scouts Leader</b> – Olsztyn, Poland <ul style="list-style-type: none"><li>Scout's team leader for children for 4 years (2014-2018). An active member for 8 years.</li><li>Architected ZHP's annual curriculum, including 2-day weekend, 7-day winter &amp; 2-week summer camps for 5 to 8 years old.</li><li>Responsible for one-on-one care with a focus on child development by reinforcing foundations for self-confidence, independence, and positive teamworking skills.</li><li>Cared for children's physical and mental well-being while away from home.</li></ul>	
EXTRACURRICULARS	<b>Competitive Swimmer</b> <ul style="list-style-type: none"><li>Member of the Kormoran Olsztyn Swim Club (2008-2017)</li><li>Olympic Trails Qualifier (2016)</li><li><b>10-Time Gold, 5-Time Silver, &amp; 3-Time Bronze medalist</b></li></ul>	<b>Hobbies</b> <ul style="list-style-type: none"><li>Avid runner   2024 TCS New York City Marathoner</li><li>Animal lover   Mother of 3 bunnies</li></ul>