Amir Rad

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Professional Summary

Accomplished researcher with a PhD in Health Sciences and extensive expertise in epidemiology, bioinformatics, and molecular biology. Skilled in designing and implementing retrospective and prospective studies, advanced statistical methods, and genomic analyses. Proven track record of impactful research publications, mentoring, and collaboration across multidisciplinary and international teams. Adept at leveraging tools like R, SPSS, and STATA to deliver high-quality research outputs. Experienced in client-facing roles, project leadership, and securing funding to drive scientific innovation.

Education

- **PhD in Health Sciences**
  UiT – The Arctic University of Norway, Tromsø, Norway | 2016–2023

  Thesis: "HPV mRNA and HPV DNA Tests in Cervical Cancer Screening"
  - Comparative performance analysis of HPV DNA and mRNA tests using datasets from Norway and South Africa.
  - Contributions to improving screening algorithms and reducing cervical cancer burden.

  PhD Trial Lecture: *"The future of cervical cancer screening: Alternative strategies for optimizing high-performance tests to reduce cervical cancer burden"*

  Relevant Courses: Quantitative Research Methods, Logistic Regression, Epidemiology, Research Ethics.

- **Specialization in Bioinformatics**
  Harvard University (Online) | 2015
  Focus: Data analysis techniques such as DNA methylation analysis, RNA-seq, and ChIP-seq.

- **Master of Science in Environmental Science** (Ecotoxicology)
  University of Gothenburg, Sweden | 2009–2013

- **Master of Science in Molecular Biology**
  University of Gothenburg, Sweden | 2009–2013

Professional Experience

Project Assistant
Vårt Hav Arktis, Norway | Nov 2024–Present
- Conducted statistical analysis using R for regional sustainability projects.
- Authored grant applications, securing funding for environmental initiatives.

Administrative Assistant
UiT – The Arctic University of Norway | Aug 2023–Mar 2024
- Delivered statistical insights using Tableau, R, and SPSS.

- Streamlined administrative workflows and organized research events.

PhD Researcher
UiT – The Arctic University of Norway | Sep 2016–Nov 2023
- Led epidemiological research projects focused on HPV and cervical cancer.
- Conducted statistical analyses using SPSS and R on datasets from the Norwegian Cancer Registry and hospitals in Norway and South Africa
- Published peer-reviewed articles and presented at international conferences.
- Presented regularly at EPINOR seminars, departmental weekly meetings, and journal clubs.

Temporary Researcher
UiT – The Arctic University of Norway | Nov 2014–Sep 2016
- Focused on epigenetics and inflammatory bowel disease (IBD).
- Performed advanced genomic analyses using R and Bioconductor.

Guest Researcher
Karolinska Institute, Sweden | Jun 2013–Dec 2013
- Conducted research on transcriptional mutagenesis in cancer models.
- Supervised and trained students in molecular biology techniques.

Research Assistant
University of Gothenburg, Sweden | Jan 2012–Mar 2013
- Investigated genetic interactions using *Drosophila melanogaster*.
- Specialized in molecular biology techniques like PCR, Western blotting, and fluorescence microscopy.

Research Assistant
Dept. of Environmental and Biological Sciences, University of Gothenburg, Sweden | Sep 2010–Jun 2011
- Conducted research using Eelpout and Rainbow Trout as laboratory models.
- Analyzed biochemical and molecular parameters using qPCR, enzyme extraction, and spectrofluorometry.

Publications & Presentations

Peer-Reviewed Articles

1. Rad, A., Sørbye, S.W., Brenn, T., et al. *13-Type HPV DNA Test vs. 5-Type HPV mRNA Test in Triage of Women Aged 25–33 Years with Minor Cytological Abnormalities: 6 Years of Follow-Up.* Int J Environ Res Public Health, 2023. 20(5): 4119.

2. Rad, A., Sørbye, S.W., Tiwari, S., et al. *Risk of Intraepithelial Neoplasia Grade 3 or Worse (CIN3+) Among Women Examined by a 5-Type HPV mRNA Test.* Cancers, 2023. 15(12): 3106.

3. Rad, A., Sørbye, S.W., Dreyer, G., et al. *HPV Types in Cervical Cancer Tissue in South Africa: A Head-to-Head Comparison by mRNA and DNA Tests.* Medicine (Baltimore), 2017. 96(47): e8752.

4. Albertsson, E., Rad, A., et al. *Carbonyl Reductase mRNA Abundance and Enzymatic Activity as Potential Biomarkers of Oxidative Stress in Marine Fish.* Marine Environmental Research, 2012. 80: 56–61.

Conference Presentations

1. Rad, A., Sørbye, S.W., Dreyer, G., et al. *HPV Types in Cervical Cancer Tissue in South Africa: A Head-to-Head Comparison by HPV mRNA and DNA Tests.* Poster Presentation, 31st International Papillomavirus Conference, Cape Town, South Africa, 2017.

2. Albertsson, E., Rad, A., et al. *Characterization of Carbonyl Reductase Expression and Activity in Rainbow Trout and Eelpout.* PRIMO16 Conference, California, USA, 2011.

Seminars and Journal Clubs

- Regular presenter at EPINOR seminars on advanced epidemiological methods and research outcomes.

- Led departmental weekly presentations and journal club discussions at UiT.

Certifications and Training

- DocEnhance (UiT Arctic University): Data Stewardship and Research Data Management Lifecycle (2024–present).

- Roche Company: Sequence Capturing Epigenetics (2015).

- UiT Arctic University: Health Safety and Environment Certification (2015).

Awards and Scholarships

- Recruitment Scholarship, University of Montreal Faculty of Medicine ($8,000).

- Master's Scholarship, Montreal Clinical Research Institute ($20,000).

Languages

English: Fluent, Persian: Native, Norwegian: Fluent, Swedish: Proficient, Italian & French: Basic/Intermediate

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Key Skills

- **Technical Skills:**
  o Statistical Tools: R, SPSS, STATA, Tableau, Excel.
  o Bioinformatics: Bioconductor, RNA-seq, DNA methylation analysis.
- **Soft Skills:**
  o Project management and grant writing.
  o Multitasking and administrative organization.
  o Cross-disciplinary and cross-cultural collaboration.