# Curriculum Vita

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# Education:

* Ph.D. in Pharmacy (Pharmaceutics), the University of Iowa, Iowa City, Iowa 52242, USA, Degree requirements fulfilled in December 2004. Thesis work and research experience involve aspects important in the field of Industrial Pharmacy. Major advisor: Professor Dale Eric Wurster. Awarded the College of Pharmacy Graduate Student Excellence Award for the years 1999, 2000, 2001, and 2003.
* B.Sc. in pharmacy, Jordan University of Science and Technology, Irbid, Jordan, 1995. Graduated with an excellent average, GPA = 86%, ranked second among the 79 students who were graduated in the same class.
* High school degree, Altawjeehy, Prince Hassan High School, Irbid, Jordan, 1990. GPA= 92%.

# Research Experience:

* Supervised a master’s thesis with the title “THE MECHANICAL ENERGIES (WORK) ASSOCIATED WITH THE COMPACTION OF BOTH THE MONOCLINIC AND THE ORTHORHOMBIC FORMS OF PARACETAMOL POWDER”
* The use of the Compression Calorimeter for the estimation of energies associated with the compaction of binary powder mixtures (thesis project). This work involved instrument upgrade efforts, which included the development of data acquisition computer programs in the Labview® format. The work also involved fundamental studies. The estimated energies were correlated with the composition fractions for each mixture. Trends in these correlations were noticed and explained according to the predominant deformation mechanism of the mixture components.
* Comparison between the powders of different drug salts in their punch stickiness properties (spring of 2003), the University of Iowa. This work

involved the use of a multi-station tableting machine. In addition, solubility and dissolution profiles of these salts were characterized.

* Effect of particle size and shape on the dissolution profiles of drug compounds (summer of 2001), Pfizer Inc., Groton, Connecticut. Aspirin was chosen as a model compound for its needle-shaped particles. It was sieved into different size fractions. Dissolution profiles were obtained and compared to computer simulations.
* The compaction properties of heparin oral delivery agents (summer of 1999), the University of Iowa. These agents were stored at different relative humidity conditions. Compaction properties were then determined and compared.

# Research Skills:

* Skilled in the use of the following instruments: TGA, DSC, Quantasorb® Surface Area Analyzer, Quantachrom® Helium Micropycnometer, HPLC, U.V. and IR Spectrometers, Gas Chromatography, and Atomic Absorption.

# Teaching, and Administrative Experience:

* Dean of the Faculty of Pharmacy at Jerash University from 2022 until present time.
* Acting Dean of the Faculty of Pharmacy and the Faculty of Nursing at Jerash University between January 2017 and June 2019.
* Current position at Jerash University as associate professor. Started at Jerash University since October 2016. I have taught several courses at Jerash University including physical pharmacy, pharmaceutics I, pharmaceutics II, industrial pharmacy, advanced pharmaceutical technology, and pharmaceutical quality control and assurance.
* Part time lecturer at the college of pharmacy of the Hashemite University, Zarqa, Jordan during the first semester of the academic year 2019/2020.
* Part time lecturer at the college of pharmacy of Jordan University of Science and Technology, Irbid, Jordan during the second semester of the academic year 2021/2022.
* Assistant professor at Jordan University of Science and Technology, Irbid, Jordan, between 2005 and 2012. During that period, I lectured in the following courses: advanced physical pharmacy, research methods for master’s students, physical pharmacy, pharmaceutics I, pharmaceutics II, industrial pharmacy, industrial pharmacy technology, and biopharmaceutics and pharmacokinetics. In addition, I have established pharmacy practice labs I, II, and III.
* At the University of Iowa, for 6 semesters as Teaching Assistant for Pharmacy Practice Labs for PharmD. students in the academic levels 2, 3, and 4. These labs are involved in pharmaceutical compounding, use of sterile hoods for injectable and ophthalmic preparations, use of literature references, patient counseling, and other activities.
* At the University of Iowa, for l semester as Teaching Assistant for Quantitative Research Methods of Analysis Lab for graduate students. This lab is designed for teaching the students how to run experiments on different instruments. Ten different methods of analysis were discussed in this lab.

# Achievements, and Memberships:

# Member in the Generics Technical Registration Committee at the Jordan Food and Drug Administration since October 2021.

* From the University of Iowa, College of Pharmacy Graduate Students Excellence Award for the years: 1999, 2000, 2001, and 2003.
* Listed on the College of Pharmacy Honor List at Jordan University of Science and Technology for 5 times.
* Chair and Vice chair of the AAPS Student Chapter at the University of Iowa during the years 2001 and 2000, respectively.
* Member in the American Association of Pharmaceutical Scientists since 2000.
* Member in the Jordanian Pharmacist Association since 1995.

# Publications:

* [“Mechanical energies associated with compaction of form I and form II paracetamol powder](http://www.sciencedirect.com/science/article/pii/S0032591011004025?_alid=1853445308&amp;_rdoc=4&amp;_fmt=high&amp;_origin=search&amp;_docanchor&amp;_ct=69&amp;_zone=rslt_list_item&amp;md5=859097cb8f1c29ae10f4dedab493f62f) “ *Powder Technology*, *2011, Volume 214( 1) pp 161-168*, Shadi F. Gharaibeh, Iba'a N. Chick Al-Ard.
* "Tablet Splitting and Weight Uniformity of Half-Tablets of 4 Medications in Pharmacy Practice " *Journal of Pharmacy Practice, 2012 Volume 25 ( 4) pp471-476,* [Linda M. Tahaineh,](http://jpp.sagepub.com/search?author1=Linda%2BM.%2BTahaineh&amp;sortspec=date&amp;submit=Submit) [Shadi F. Gharaibeh](http://jpp.sagepub.com/search?author1=Shadi%2BF.%2BGharaibeh&amp;sortspec=date&amp;submit=Submit).
* “Use of First Derivative of Displacement vs. Force Profiles to Determine Deformation Behavior of Compressed Powders”*. AAPS PharmSciTech, 2013, volume 14(1) pp 398-401,* Shadi F. Gharaibeh, Aktham Aburub.
* “Antimicrobial Activity of Common Mouthwash Solutions on Multidrug- Resistance Bacterial Biofilms”. *Journal of Clinical Medicine Research, 2013 volume 5(5) pp 389-394,* Majed M. Masadeh, Shadi F. Gharaibeh, Karem H. Alzoubi, Sayer I. Al-azzam, Wasfi M. Obeidat.
* “Compaction behavior of metformin HCl powders obtained by combined cooling anti-solvent crystallization”*. Jordan Journal of Applied Science, 2014, volume 12(1) pp 39-46,* Nizar Al-Zoubi, Shadi Gharaibeh.
* “[Anti-factor Xa levels in obese patients receiving enoxaparin for treatment and prophylaxis indications](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5965377/)”. *Clinical pharmacology: advances and applications, 2018, volume 10 pp 63*. Linda Tahaineh, Sahar M Edaily, Shadi F Gharaibeh
* “[Tablet splitting practice in Jordan](https://onlinelibrary.wiley.com/doi/abs/10.1111/jphs.12258)”. *Journal of Pharmaceutical Health Services Research, 2018, volume 9 (4) pp 373-379*. Shadi F Gharaibeh, Linda M Tahaineh, Afaf H Khasawneh
* “[Effect of different splitting techniques on the characteristics of divided tablets of five commonly split drug products in Jordan](javascript:void(0))”. *Pharmacy Practice, 2020 volume 18 (2) pp 1776*. [Shadi F. Gharaibeh](https://www.ncbi.nlm.nih.gov/pubmed/?term=Gharaibeh%20SF%5BAuthor%5D&cauthor=true&cauthor_uid=32377280) and [Linda Tahaineh](https://www.ncbi.nlm.nih.gov/pubmed/?term=Tahaineh%20L%5BAuthor%5D&cauthor=true&cauthor_uid=32377280).
* “[Preparation and Evaluation of Ternary Polymeric Blends for Controlled Release Matrices Containing Weakly Basic Model Drug](javascript:void(0))”. *Current Drug Delivery, 2021 volume 18 (1), 54-6*. WM Obeidat, SF Gharaibeh, AA Jaradat, O Abualsuod.
* “[Assessment of Self-Medication Use among University Students](javascript:void(0))”. *International Journal of Nursing, 2020 volume 7 (1), 1-7.* Abdullah Alkhawaldeh, Omar Al Omari, Mohammed ALBashtawy, Omar Khraisat4, Khloud Al Dammerry, Shadi F. Gharaibeh, Ibrahim Ayasrah.
* “[Spray Drying for Direct Compression of Pharmaceuticals](https://www.mdpi.com/980140)”. *Processes*, *2021 volume 9 (2), 267.* Nizar Al-Zoubi, Shadi Gharaibeh, Ahmad Aljaberi, Ioannis Nikolakakis.
* “Effect of post-compaction heating on characteristics of microcrystalline cellulose compacts”. *e-Polymers, 2022,  22 (1), 536-543*, Shadi Gharaibeh, Wasfy Obeidat, Nizar Al-Zoubi.
* “[The influence of drugs solubilities and chitosan-TPP formulation parameters on the mean hydrodynamic diameters and drugs entrapment efficiencies into chitosan-TPP nanoparticles](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=bWR54qgAAAAJ&sortby=pubdate&citation_for_view=bWR54qgAAAAJ:f2IySw72cVMC)”. *AAPS PharmSciTech, 2022, 23 (7), 262*, WM Obeidat, SF Gharaibeh, A Jaradat.
* “Effect of strength and porosity of tablets on the magnitudes of subdivision forces”. *Pharmaceutical Development and Technology, 2023, 28 (1), 138-142*, SF Gharaibeh, L Tahaineh.
* “Investigations on Compaction Behavior of Kollidon®SR-Based Multi-component Directly Compressed Tablets for Preparation of Controlled Release Diclofenac sodium”. *AAPS PharmSciTech, 2023, 24 (8), 225*, WM Obeidat, IK Lahlouh, SF Gharaibeh.

# Other scientific presentations:

* “Deformation Behavior and Mechanical Properties of the Oral Heparin Delivery Agents SNAC and SNAD.” Poster presentation, AAPS Annual Meeting and Exposition, New Orleans, LA, 1999.
* “Determination of Internal Energy Changes Induced by Compression and Decompression of Pharmaceutical Powders.” Poster presentation, Pharmaceutical Graduate Students Research Meeting , University of Illinois at Chicago, IL 2003.
* “Determination of Internal Energy Changes Induced by Compression and Decompression of Pharmaceutical Powders.” Poster presentation, AAPS Annual Meeting and Exposition, Salt Lake City, UT 2003.
* “Design and Development of the Compression Calorimeter”. Podium presentation, Pharmaceutical Graduate Students Research Meeting, University of Illinois at Chicago, Chicago, IL 2003.
* “[Application of the Noyes-Whitney Equation to Predict Dissolution of Rod Shaped Crystalline Particles](http://www.aapspharmaceutica.com/meetings/annualmeet/am03/program/itinerary.asp?action=itemView&amp;sbmID=1054).” Poster presentation, AAPS Annual Meeting and Exposition, Salt Lake City, UT 2003.
* “Thermodynamics of the Compaction of Binary Powder Mixtures.” Poster presentation, Pharmaceutical Graduate Students Research Meeting, The University of Iowa, Iowa City, IA, 2004.