



## رزومه علمی امیر رضا زراتی و انتشارات

### مشخصات و آدرس

نام: امیر رضا زراتی  
متولد: ۱۳۴۰ تهران ایران  
آدرس: دانشکده عمران دانشگاه صنعتی امیر کبیر خیابان حافظ تقاطع خیابان سمیه شماره ۴۲۴ تهران ایران- تلفن ۶۴۵۴۳۰۰۲- ایمیل [zarrati@aut.ac.ir](mailto:zarrati@aut.ac.ir)

### تحصیلات دانشگاهی

کارشناسی مهندسی عمران دانشگاه صنعتی امیر کبیر سال ۱۳۵۶-۱۳۶۴  
کارشناسی ارشد مهندسی عمران- هیدرولیک دانشگاه نیو کاسل آبن تاین انگلستان ۱۳۶۵-۱۳۶۶  
عنوان پایان نامه " Rational Approaches to River Regime "  
دکترای مهندسی عمران- هیدرولیک و سازه های هیدرولیکی امپریال کالج لندن دانشکده عمران ۱۳۶۷-۱۳۷۰  
عنوان پایان نامه " Studies on Air-Water Mixtures for Spillway Aerators " ,

### فرصت های مطالعاتی

۱- دانشگاه توکیو- ژاپن ۶ ماه سال ۱۳۷۸ عنوان زمینه تحقیقاتی "مدلسازی عددی رودخانه ها در هندسه های پیچیده"  
۲- دانشگاه رجاپنا در کانادا مهر ۱۳۸۱ تا مهر ۱۳۸۲- عنوان زمینه تحقیقاتی " توسعه یک مدل عددی سه بعدی برای آبهای کم عمق "

### موقعیت شغلی

استاد دانشکده عمران دانشگاه صنعتی امیر کبیر و تدریس دروس مکانیک سیالات، هیدرولیک و هیدرولیک رسوب در دور کارشناسی و دروس هیدرودینامیک و مهندسی رودخانه و نیروگاههای برقآبی در دوره کارشناسی ارشد و دکتری

### فعالیت های حرفه ای

مشاور پژوهشی- موسسه تحقیقات آب وزارت نیرو در مدلسازی سازه های هیدرولیکی سدهای بلند مثل مسجد سلیمان، کرخه، کارون ۱، کارون ۳، کارون ۴ از سال ۱۳۷۰ تا ۱۳۹۳  
مشاوره در طراحی سازه های هیدرولیکی در چندین سد و نیروگاههای برقآبی از جمله کارون ۴، کارون ۳ و سردشت.

### عضویت در مجامع بین المللی و هیئت تحریریه مجلات

عضو انجمن بین المللی مهندسی و تحقیقات آب از سال ۱۳۷۰  
عضو انجمن هیدرولیک ایران از سال ۱۳۷۰  
عضو هیئت تحریریه مجلات علمی پژوهشی امیر کبیر و فردوسی مشهد همچنین مجله هیدرولیک ایران و Journal of Applied Water Engineering and Research (International Association of Hydraulic Research)

## انجام پروژه های تحقیقاتی و ارتباط با صنعت

۱- مطالعه برای مهار آبشستگی در اطراف پایه های پل- پروژه ملی- سازمان پژوهشهای علمی کشور-۱۳۷۵  
۲- توسعه یک نرم افزار برای پیش بینی الگوی جریان در رودخانه ها با هندسه پیچیده- معاونت پژوهشی دانشگاه صنعتی امیر کبیر پروژه مستقل- ۱۳۷۹  
۳- توسعه یک نرم افزار برای پیش بینی الگوی جریان در محل تنگ شدگی پل- پژوهشکده حمل و نقل- وزارت راه- ۱۳۸۴  
مطالعه کاهش آبشستگی اطراف پایه های پل به روش غیر مستقیم معاونت پژوهشی دانشگاه صنعتی امیر کبیر پروژه

مستقل ۱۳۸۵

- ۴- تثبیت بستر رودخانه در محل پلها- پژوهشکده حمل و نقل- وزارت راه- ۱۳۸۶
- ۵- دستورالعمل طراحی راه و راه آهن در حریم پل ها- پژوهشکده حمل و نقل- وزارت راه- ۱۳۹۰
- ۶- آنالیز ریسک در طراحی پلها در مقابل آبشستگی- قطب علمی دانشکده عمران دانشگاه صنعتی امیرکبیر- ۱۳۹۱
- ۷- تاثیر غیر دائمی بودن جریان بر آبشستگی در اطراف پایه های پل و سازه های محافظ مثل ریپ رپ و طوق- ۱۳۹۳

## افتخارات

کسب بورس تحصیلی از دانشگاه صنعتی امیر کبیر برای دوره کارشناسی ارشد و دکترا  
کسب بورس تحصیلی ORS به عنوان دانشجوی ممتاز از امپریال کالج لندن  
کسب بورس MIF برای انجام پروژه تحقیقاتی در دانشگاه توکیو  
پروژه کارشناسی برتر- دانشجو: ساسان توکل- ۱۳۹۰- عنوان توزیع تنش برشی در مقاطع مستطیلی  
پروژه کارشناسی برتر- دانشجو: احمد رضا غفاری ۱۳۸۸- عنوان تحلیل در مهندسی هیدرولیک به روش عدم اطمینان

## انتشارات

### کتاب

- ۱- نقش عوامل هیدرولیکی در طراحی پل- ترجمه: امیر رضا زراتی- انتشارات دانشگاه هرمزگان- دانشگاه صنعتی امیر کبیر- سال ۱۳۷۹
- ۲- نقش عوامل هیدرولیکی در طراحی پل- چاپ دوم با یک فصل اضافی- ترجمه: امیر رضا زراتی- انتشارات دانشگاه صنعتی امیر کبیر- سال ۱۳۸۲
- ۳- آزمایشگاه مکانیک سیالات و هیدرولیک به همراه خلاصه ای از مباحث مکانیک سیالات- تالیف امیر رضا زراتی و مهدی کریمی- انتشارات دانشگاه صنعتی امیر کبیر- سال ۱۳۸۸ چاپ دوم ۱۳۹۰
- ۴- روشهای عددی برای حل معادلات آبهای کم عمق در مهندسی رودخانه و سواحل- تالیف محمد رضا هادیان و امیر رضا زراتی- انتشارات دانشگاه صنعتی امیر کبیر- سال ۱۳۸۸
- ۵- اصول و مبانی طراحی سازه های هیدرولیکی- ترجمه امیر رضا زراتی- رضا روشن- بهروز خادم رابع- حامد سرکرده- موسسه تحقیقات آب- انتشارات فدک- ۱۳۹۲
- ۶- مکانیک سیالات- انتشارات دانشگاهی فدک- ۱۳۹۳
- ۷- مکانیک سیالات- انتشارات دانشگاهی جهش- ویراست دوم- ۱۳۹۶

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