

<p style="text-align: center;">Writing Bad Papers Writing Good Papers VIEW Workshop</p> <p style="text-align: center;">Tamara Munzner, UBC</p> <p style="text-align: center;">27 June 2007</p>	<p style="text-align: center;">Overview</p> <ul style="list-style-type: none"> ▶ What Not To Do ▶ What To Do 	<p style="text-align: center;">Paper Pitfalls: Strategy</p> <ul style="list-style-type: none"> ▶ What I Did Over My Summer Vacation <ul style="list-style-type: none"> • focus on effort not contribution • too low-level ▶ Least Publishable Unit <ul style="list-style-type: none"> • tiny increment beyond (your) previous work • bonus points: new name for old technique ▶ Dense As Plutonium <ul style="list-style-type: none"> • so much content that no room to explain why/what/how • fails reproducibility test ▶ Bad Slice and Dice <ul style="list-style-type: none"> • two papers split up wrong • neither is standalone, yet both repeat ▶ Slimy Simultaneous Submission <ul style="list-style-type: none"> • often detected when same reviewer for both • instant dual rejection, multi-conference blacklist 	<p style="text-align: center;">Paper Pitfalls: Tactics</p> <ul style="list-style-type: none"> ▶ Guess My Contributions Game <ul style="list-style-type: none"> • it's your job to tell reader explicitly • consider carefully, often different from original goals ▶ I Am So Unique <ul style="list-style-type: none"> • don't ignore previous work • both on similar problems and with similar solutions ▶ Enumeration Without Justification <ul style="list-style-type: none"> • "X did Y" not enough • must say why previous work doesn't solve your problem! • what limitations of theirs does your approach fix? ▶ Deadly Detail Dump <ul style="list-style-type: none"> • how allowed only after what and why • motivation: why should I care • overview: what did you do • details: how did you do it ▶ Jargon Attack <ul style="list-style-type: none"> • avoid where you can • define before using
<p style="text-align: center;">Review Reading Pitfalls</p> <ul style="list-style-type: none"> ▶ Reviewers Were Idiots <ul style="list-style-type: none"> • rare: insufficient background to judge worth • if reviewer didn't get point, many readers won't • rewrites so clearly that nobody can misunderstand ▶ Reviewers Were Threatened By My Brilliance <ul style="list-style-type: none"> • seldom: unduly harsh since intimately familiar area ▶ I Just Know Person X Wrote This Review <ul style="list-style-type: none"> • sometimes true, sometimes false • don't get fooled, try not to take it personally ▶ Ignore Review and Resubmit Unchanged <ul style="list-style-type: none"> • often will get same reviewer, who will be irritated ▶ It's The Writing Not The Work <ul style="list-style-type: none"> • sometimes true: bad writing can doom good work • converse: good writing may save borderline work • sometimes false: weak work still too common <ul style="list-style-type: none"> • many people reinvent wheel • some people make worse wheels than previous ones 	<p style="text-align: center;">Overview</p> <ul style="list-style-type: none"> ▶ What Not To Do ▶ What To Do 	<p style="text-align: center;">Paper Structure: General</p> <ul style="list-style-type: none"> ▶ low level: necessary but not sufficient <ul style="list-style-type: none"> • correct grammar/spelling • sentence flow ▶ medium level: order of explanations <ul style="list-style-type: none"> • build up ideas ▶ high through low level: <ul style="list-style-type: none"> why/what before how • paper level • section level • sometimes even subsection or paragraph 	<p style="text-align: center;">Paper Writing: Contributions</p> <ul style="list-style-type: none"> ▶ what are your research contributions? <ul style="list-style-type: none"> • what can we do that wasn't possible before? • how can we do something better than before? • what do we know that was unknown or unclear before? ▶ determines everything <ul style="list-style-type: none"> • from high-level message to which details ▶ often not obvious <ul style="list-style-type: none"> • diverged from original goals, in retrospect ▶ state them explicitly and clearly in introduction <ul style="list-style-type: none"> • don't hope that reviewer or reader will fill in for you • don't leave unsaid what should be obvious after close reading of previous work <ul style="list-style-type: none"> • per very important: but many readers skip • goal is clarity, not overselling <ul style="list-style-type: none"> • do include limitations: often later, in discussion subsection
<p style="text-align: center;">Three Suggestions</p> <ul style="list-style-type: none"> ▶ write and give talk first ▶ then create paper outline from talk <ul style="list-style-type: none"> • encourages concise explanations of critical ideas • avoids wordsmithing rambles and digressions ▶ practice talk feedback session: at least 3x talk length <ul style="list-style-type: none"> • global comments, then slide by slide detailed discussion • nurture culture of internal critique ▶ have nonauthors read paper before submitting <ul style="list-style-type: none"> • internal reviewer can catch many problems • ideally group feedback session as above 	<p style="text-align: center;">InfoVis Paper Styles</p> <ul style="list-style-type: none"> ▶ technique <ul style="list-style-type: none"> • most common • here's how to do X • do first, or do better ▶ design study <ul style="list-style-type: none"> • not just apply technique X to domain Y • justify visual encoding choices ▶ system <ul style="list-style-type: none"> • very hard to do well! • lessons learned: why do we care? ▶ evaluation <ul style="list-style-type: none"> • often but not always user studies ▶ model <ul style="list-style-type: none"> • frameworks, taxonomies • best case: taxonomy as aid to thinking, finding gaps ▶ actual paper may (should?) have a mix of these elements ▶ more at www.infovis.org/infovis/2003-CFP/#papers 	<p style="text-align: center;">Paper Writing: InfoVis Technique/Design Study</p> <ul style="list-style-type: none"> ▶ what problem are you solving ▶ why should I care <ul style="list-style-type: none"> • order depends on whether familiar ▶ why don't existing systems solve problem ▶ technique <ul style="list-style-type: none"> • how algorithm works: overview, then details ▶ design study <ul style="list-style-type: none"> • what is mapping from domain problem to visual encoding • why does it solve problem <ul style="list-style-type: none"> • abstraction and justification is critical • may include multiple design iterations ▶ results <ul style="list-style-type: none"> • complexity, performance, visual quality, efficacy • informal usability, formal user study, field study • anecdotes (insights found), user community (adoption), • usage scenarios, case studies 	